RCMA

NEWSLETTER

JULY 1986

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OF MONITOR RADIO LISTENERS

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RCMA NEWSLETTER

GENERAL MANAGER
BUSINESS AFFAIRS • ADVERTISING

Carol Ruth (CA-OR-100)
P.O. Box 542
Silverado, CA 92676

GENERAL EDITOR

William Mauldin (FL-137)
2268 N.W. 30th Rd.
Boca Raton, FL 33431

ASSISTANT EDITOR

Kurt Swaney (KS-006)
P.O. Box 1198
Manhattan Beach, CA 90266-8198

FOR YOUR INFORMATION:

1. Input to the RCMA Newsletter must be mailed to the proper editors, whose addresses are included in the individual column headlines. If no particular column seems appropiate, send input to RCMA, P.O. Box 1198, Manhattan Beach, CA 90266-8198

2. To forward a letter to a specific RCMA member whose address you do not know, put your message to that person in a stamped envelope with your return address on it; mail to RCMA General Manager, P.O. Box 542, Silverado, CA 92676.

3. PLEASE INCLUDE YOUR RCMA MEMBERSHIP NUMBER WITH ALL CORRESPONDENCE to newsletter editors or club headquarters.

4. If you require a reply when writing to RCMA headquarters or to one of the editors, you MUST enclose a self-addressed, stamped envelope.

5. Please write on only one side of the paper.

6. Please don't combine in one letter several items that should go to different addresses.

7. If you want to type what you submit to the newsletter, please don't exceed a seven-inch column width and please single space. Doing this may save an editor from having to retype the material. Please don't use script type.

8. Your RCMA membership number and expiration date appear on your newsletter mailing label.

9. You may join or renew your membership for ONLY one year at a time.

10. RCMA accepts paid advertising. For information on advertising rates and mechanical requirements, contact Carol Ruth, RCMA Advertising Manager, P.O. Box 542, Silverado, CA 92676.

RCMA NEWSLETTER

ISSUE 125 JULY 1986

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RCMA, Inc., P.O. Box 4563, Anaheim, CA 92803

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CONTACTING RCMA?

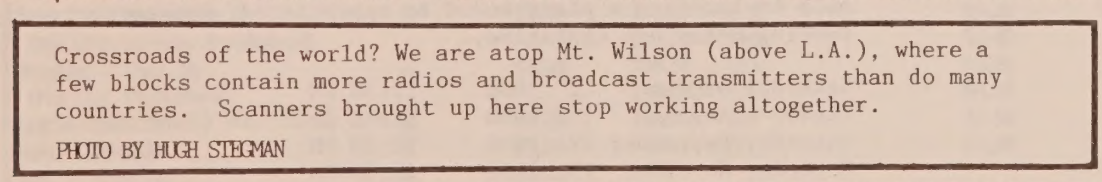
Membership applications or renewals, address changes, inquiries about delivery or renewal problems:

Write to: RCMA General Manager
P.O. Box 542
Silverado, CA 92676

Comments or questions about RCMA club policy or newsletter content: Write to: William Mauldin, RCMA General Editor
2268 N. W. 30th Rd.
Boca Raton, FL 33431

Letters for publication in "Your Thoughts" column: Write to: Kurt Swaney, RCMA Assistant Editor
P.O. Box 1198
Manhattan Beach, CA 90266-8198

Correspondence sent to RCMA's Anaheim Post Office Box will still be answered, but there will be a 4-6 week delay.



Crossroads of the world? We are atop Mt. Wilson (above L.A.), where a few blocks contain more radios and broadcast transmitters than do many countries. Scanners brought up here stop working altogether.

PHOTO BY HUGH STEGMAN

The RCMA Newsletter is published by members of the RADIO COMMUNICATIONS MONITORING ASSOCIATION, Inc., P.O. Box 4563, Anaheim CA 92803. Subscription rate/membership fee is $16.50 for U.S. residents. For persons in other countries, the following rates apply: Canada and Mexico—$18.50; Europe—$20.00, South Pacific and Asia—$21.50. These dues are payable in U.S. funds and are subject to change. Information contained herein is obtained primarily from members and does not necessarily present the position or reflect the opinion of RCMA as a whole. The RCMA does not necessarily recommend or endorse products or services advertised herein. The publication is copyrighted ©. Reproduction of any material in this newsletter is prohibited without prior written consent.

CALENDAR

Send notices of upcoming events for the Calender section to:
John R. Clark, 2701 Fairview Road, Costa Mesa, CA 92620
Deadline: 1st of the month two months prior to cover date.

R.C.M.A. Greater L. A. Area Chapter

Contact : Eric J. Christensen (CA-LA-045) KA6IHT 224.66 MZz
P.O. Box 3962 Santa Fe Springs, CA 90670-1962

R.C.M.A. West Los Angeles Chapter

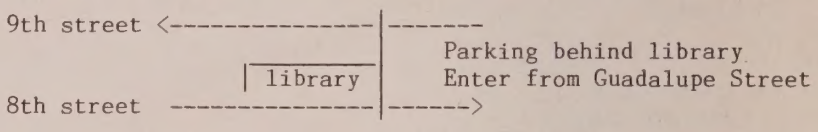
Contact : Hugh Stegman (CA-LA-472) (213) 473-8333
11622 Exposition Blvd #2, Los Angeles, CA 90064
Talk in: 146.925 MHz {-600 PL-2A} Tues 1930 hrs net.

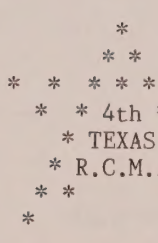
The new West Los Angeles Chapter of RCMA meets on the 2nd Wednesday of every month, at 7:30 PM, at Shakey's on Sepulveda Blvd. and Playa or Jefferson (depends on which way you're going), in Culver City. This is a few blocks north of Fox Hills Mall, and the 405 freeway.

Meetings are scheduled for July 9, Aug 13, and Sept 10, 1986. Also don't forget to attend the tours scheduled by the Greater L.A. chapter. All of these are outstanding

Austin Area Radio Listeners Meeting

Meeting every 2nd Tuesday 6:45 PM Austin Public Library 4th floor room B. For more information, contact Richard Quintanilla TX 043 Austin Radio Club, P.O. Box 5053, Austin TX 78763





The 4th Annual All Texas R.C.M.A. Meeting will be held Saturday, 21 June 1986, at the Austin Public Library fourth floor room A. 1:00 PM to 4:45 PM.

A tour may be scheduled in the evening. For more information contact Richard Quintanilla TX 043 Austin Radio Club, P.O. Box 5053, Austin TX 78763

R.C.M.A. Chicago

Contact Edward Robert Sirovy IL-004 312 969 2856
311 S. Williams Street, Westmont, Il 60559

Meetings: Location as of this printing is still not final. Send a SASE to above address for late breaking news. Your help in locating a place would be appreciated. Remaining meeting dates are tentative.

Saturday	August 2	1986	12:30 PM
Sunday	August 17	1986	Field Exercise (Shoe Factory
Saturday	September 27	1986	12:30 PM Woods)
Saturday	November 15	1986	12:30 PM

Visitors are welcome but please confirm the date in advance.

A SASE on file assures notification of tours and other items which may be scheduled on short notice.

R.C.M.A. for D.C., MD, VA, & DE

Contact: Capitol Hill Monitors % Alan Henney (MD 069)
6912 Prince Georges Ave, Takoma Park, MD 20912

R.C.M.A. Minneapolis — St. Paul Area

Contact: Chuck Steier MN-008 (612) 927-9253
4820 Hwy 7, Minneapolis, MN 55416

A SASE on file assures notification of chapter activities (tours, gatherings, etc). Non members are welcome to attend.

Southern New England Scanners Club

The Southern New England Scanners Club is currently undergoing a reorganization.

All Ohio Scanner Club

Contact : Dave Jones Treasurer or John Thyne Secretary
P.O. Box 148, Vandalia, Ohio 45377

The All Ohio Scanner Club covers the area of Indiana, Kentucky, Michigan, Pennsylvania, West Virginia, and Ontario, Canada. We welcome members from these and other areas who wish to join our club.

Sample Newsletter: $1.00 plus $0.39 stamp. Membership information for a large SASE to the Post Office Box listed above.

To contact David B. Marshall OH-146, Managing Editor and Founder,
50 Villa Road, Springfield, OH 45503-1036

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* SECOND *
* ANNUAL *
* PICNIC *
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The ALL OHIO SCANNER CLUB will host it's second annual summer meeting and picnic on Saturday, August 17, 1986, in Columbus, Ohio. All R.C.M.A. members are invited to attend. For more information, please send a SASE to David B. Marshall OH 146 50 Villa Road, Springfield, OH 45503-1036

R.C.M.A. Wisconsin

Contact Scott W. Miller WI-039
122 Greenbriar Drive, Sun Prairie, WI 53590

R E G A R D I N G R E N E W A L N O T I C E S . . .

June '86 is the last month in which renewal notices for renewals due during the same month will be sent out. Beginning in June also, renewal cards for renewals due the following month will be month will be mailed. Therefore, postcards for June renewals will state that renewal is due this month; postcards for July renewals (also mailed in June), will state that renewal is due next month. August renewal notices will be sent in July, and so forth.

NEED BACK ISSUES OF THE RCMA NEWSLETTER:

Lots (Months/Year)	No. of Issues	Price
Sept 75 — June/July 76 (No Oct. or Nov. Published)	7	$2.00
August — Dec. 76 (No Oct. Published)	4	$3.00
Jan. — June 77	6	$4.00
July — Dec. 77	6	$4.00
Jan. — June 78	6	$5.00
July — Dec. 78	6	$5.00
Jan. — June 79	6	$6.00
July — Dec. 79	6	$7.00

1980—to date issues are available at $1.50 per copy

Order Total	Include This Amount of Postage
$ 1.50 — $ 5	$1.20
$ 5.50 — $10	$2.25
$10.50 — $15	#3.30
$15.50 — $25	$4.15
$25.50 — $35	$5.50
Over $35	$7.00

Send your request & check/M.O. (payable to RCMA) to:
RCMA General Manager
P.O. Box 542
Silverado, CA 92676

your thoughts

Kurt Swaney, RCMA Assistant Editor
P.O. Box 1198, Manhattan Beach, CA 90266-8198

Your Thoughts is RMCA's members forum on current topics of interest to the scanner hobbyist. If you have any thoughts you would like to express, RCMA encourages you to send them in.

All letters must include your name, address, and RCMA membership number. Due to space limitations, RCMA reserves the right to condense submitted material.

Welcome to the July 1986 Your Thoughts column!

Please note the new Your Thoughts address above. Your letters will be acknowledged with a postcard and the estimated printing date.

Ginny Slick advises that she believes she misplaced a Your Thoughts contribution which she received sometime between March 15 and April 15. Ginny sends her apologies.

If you sent in a letter during that time and have not yet seen it in the column, please send a replacement copy (if possible) to the new column address.

For best printing results, typewritten contributions should be ten characters per inch and no wider than seven inches (7"). (Exactly 7" wide is ideal!)

There are no letters for printing this month. I hope I see your letter in my mailbox soon!

Kurt

- Kurt Swaney, Assistant Editor

ASSOCIATION OF NORTH AMERICAN RADIO CLUBS
NEWS HIGHLIGHTS

ANARC is a federation of the most responsible, well established radio listening clubs in North America. RCMA attained Full Member status in ANARC in 1977. For a list of the ANARC Member and Associate Member clubs send a self-addressed, stamped business size envelope with your request to the address below.

Write to Joe Barr, 1500 Bunbury Dr., Whittier, CA 90601, for the following:
- Copy of ANARC Club List — Sent 25¢ and an SASE (business size)
- Sample Copy of ANARC Newsletter — Send 60¢ and an SASE (business size)
- Annual Subscription to ANARC Newsletter — $7.50 for residents of U.S., Canada, and Mexico; $10 Overseas (Airmail)

ANARC 1986 Convention will be held July 18-20 in Montreal, Quebec, Canada,

Registration details from Ian McFarland, Radio Canada International, P.O. Box 6000, Montreal, Quebec H3C 3A8 Canada

JULY 30 MICHIGAN AREA RADIO ENTHUSIASTS (MARE) Wednesday, 7:30 PM at the Dearborn Civic Center, Dearborn, MI. Special Guest Speaker, Arthur Cushen, President, New Zealand Radio DX League. Details, send a SASE to: M.A.R.E. 24500 Union, Dearborn, MI, 48124

AUG 2 SOUTHERN CALIFORNIA AREA DXERS (SCADS) will present Arthur Cushen, National President, New Zealand Radio DX League, as guest speaker, at their meeting. For information send a #10 SASE to Don Schmidt, SCADS, 3809 Rose Ave, Long Beash, CA 90807-4334. Lots of free parking

AUGUST 22-24 INTERNATIONAL RADIO CLUB OF AMERICA (IRCA) Annual IRCA Convention Palm Beach, Florida. Convention sessions at Hyatt of the Palm Beaches Hotel. Including Banquet, radio station tours, IRCA Auction, ballgame etc. IRCA is a medium-wave radio convention. Registration details for a SASE from IRCA, P.O. Box 482, East Moline, IL 61244

AUGUST 20-SEPT 1 - NATIONAL RADIO CLUB (NRC) Annual N.R.C. Labor Day Weekend Convention. Ramada Inn, New Castle, Delaware. For detains send a SASE to Dave Schmidt, Box 11502, Wilmington, Delware, 19850

THE ONTARIO DX ASSOCIATION now allows associate members outside of Ontario. A Sample copy of their monthly publication costs $2.00. ODXA is planning a meeting in October 1986, and will sponsor the 1987 ANARC Convention in Toronto. For more information send a SASE to ODXA Membership Secretary, P.O.Box 232, Station Z, Toronto, Ontario M5N 2Z4, Canada

CENTURY PRINT SHOP -- Don Erickson, 6509 Essex Street, Riverside, CA 92504-1599 has a special offer on 1986 WORLD RADIO TV HANDBOOK. Until 1 September 1986, or until the supply is exhausted the Century Print Shop will sell 1968 WRTVH at $13.00 each or two for $25.00. 6% sales tax for California residents. Books shipped postpaid book rate only. Telephone for first class rates (714) 687-5910. Please no collect calls. A SASE will get you a list of a large inventory of Sams and TAB books.

RADIO WEST 3417 Purer Road, Escondido, CA 92025, has been publishing a regular "Radio West Garage Sale List". Included are reduced prices on antennas, and receivers. To get on their mailing list send a SASE to the above address. RW is now the USA master distributer for ESKAB of Sweden. The ESKA company has the RX12B, a 12 channel crystal controlled shortwave receiver, and the RX12PL, a synchronous detector version. ESKAB also has the RX-33, which is an improved version of the SANGEAN ATS-803, which is a general coverage 150-29.999 kHz with keypad and manual tuning, manual RF gain, two good selectivities, and internal/external antenna options. The ESKAB RX-33 is an excellent performer and should be a good optional choice to radios such as the widely unavalable SONY ICF 2010 Radio West Catalog #8 is in the work. Should be available in soon after you receive this. Request it today. $1.00 to above address.

INTERNATIONAL BROADCASTING SERVICES, LTD has just released two "white papers" of interest to all DXers. Edited by Larry Magne, they include "Radio Database International Evaluates the Japan Radio NRD-525 Receiver", and "How to Interpert Specifications and Lab Tests When Choosing a Receiver or Transceiver". For a list of these reports, send a SASE to Publications Information, International Broadcasting Services Ltd. Box 300, Penn's Park, PA 18943

THE WORLD BELOW 500 KILOHERTZ, a new definitive book which introduces the radio long wave spectrum by L. Peters Carron, Jr. "lowfers" are aircraft beacons, underwater submarines, to signals emitted by the ionized trails of missile launches. Available from L.P. Carron Publishers, 205 Ridgewood Road, Easton, PA 18042. Cost is $5.50 postpaid in USA and Canada. $8.00 overseas airmail.

DICK SMITH ELECTRONICS, DS Xpress Order Center, P.O. Box 8021, Redwood City, CA 94063-8021, has published their new 148 page 1986-87 catalog containing everything for the electronics enthusiast. Write for your free copy today.

MONITORING TIMES is merging with INTERNATIONAL RADIO (formerly Shortwave Guide) effective with the July 1986 issue. Price will be $14.00 for twelve issues. International Radio deals with SW broadcast stations and Monitoring Times has specialized in the utility radio. Current subscribers will not be affected and will receive the combined publication. For more information send a large SASE to Monitoring Times, 140 Dog Branch Road, P.O. Box 98, Brasstown, NC 28902

RADIO STATION TREASURY (1900-1946) by Tom Kneitel, is a new 176-page compendium listing stations that operated between the dawn of the 20th century and the end of WWII. A comprehensive sourcebook directory. Price is $12.95 + $2.00 postage. Write to CRB Research, P.O. Box 56, Commack, NY 11725

SATELLITE COMMUNICATIONS has a monthly magazine "Satellite World" and a 544 page reference guide, "World Satellite Almanac". These will be of interest to satellite video and audio standards and reception techniques. For Information, send a large SASE to World Satellite Almanac, Box 70697, Dept R, Pasadena, CA 91107

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From The CAPTAIN'S DESK

William Mauldin, RCMA General Editor
2268 N.W. 30th Rd., Boca Raton, FL 33431

NEW EDITOR FOR PUBLIC SAFETY NORTHEAST

Tom Ernst has notified the staff that he must resign his position of Editor for the PUBLIC SAFETY NORTHEAST column effective immediately. Tom works in fire services and has announced his intentions to study for an appointment to the rank of Captain with his department. Although we hate to see Tom leave his position with RCMA, we can certainly understand his desire to secure the promotion and wish him good luck in the upcoming testing process.

Hank Rose, the current Editor for MONITORING AND THE LAW, has accepted the transfer to become the new Editor for PUBLIC SAFETY NORTHEAST. Hank had expressed interest in the PUBLIC SAFETY NORTHEAST position when he was assigned to the MONITORING AND THE LAW position. Hank has done well in his present assignment, and in the best interest of continuity for those of you in the northeast, I feel this transfer of assignments benefit us all. Effective with this printing, all contributions and correspondence addressed to the Editor of PUBLIC SAFETY NORTHEAST should be addressed to:

Mr. Hank Rose, Editor
RCMA Public Safety Northeast
2 South Gold Drive
Robbinsville, New Jersey 08691

EDITOR WANTED - MONITORING AND THE LAW

With Hank Rose making an assignment transfer to PUBLIC SAFETY NORTHEAST, we now have an opening for an Editor for MONITORING AND THE LAW. If you are interesting in joining the RCMA volunteer staff of editors, please let me hear from you at once.

MONITORING AND THE LAW is certainly one of our most important columns. This editor keeps us all informed monthly on the current and pending laws on the federal, state and local levels. Although column space is usually only one page, when things start changing regarding your monitoring, your scanner either at home or mobile, and how legal or illegal things are, this is one very important column. It requires a person with a degree of expereince to keep us all updated on what is pending and what has passed. It is a very interesting and challenging position to say the least.

Members interested in this position should write a letter of application at once, as you are needed now. Please list your thoughts and ideas regarding the column. List your qualifications and desires regarding this subject. Use the word processing printer or typewriter that you would use, if selected, to write the column. As we have mentioned, all text must be camera ready when written by an Editor and sent to Carol Ruth for printing. If two equally qualified members make application for the position, the one with the best printer will be selected.

NEW EDITOR SELECTION POLICY & THE 1986 MEMBER SURVEY

As many of you have commented in your letters to me, when we have an editor resign it is sometimes many months before a replacement can be named. In the past, we have felt that all editor position openings should be announced in the NEWSLETTER, allowing all interested members to write and make application for the job openings. I agree, this is fair... however, it is also a very slow process. It takes three months minimum before we can get an announcement in print and select an editor. Sometimes it takes several additional months because of immediate resignations. This deprives you of your favorite column for many issues.

Since we now have a Yearly Member Survey, we will present you with a few questions which will allow you to put your name on the waiting list for an Editor's position. By using the "interesting in becoming an editor" file, we can enter your name in the computer. If an editor resigns, all those members on the "interested" list will be notified of the opening by postal card. You will then have the chance to immediately write confirming your desire for the position and list your qualifications. We can have a replacement picked and in position, working, within 30 days using this method.

In addition to using your Survey Response information for the waiting list, I will write something in this column at least two other times each year, urging you to list yourself with the General Editor so you can be added to the list, if not already listed. We will update the list yearly. The current editors will be advised of your interests so they too may call upon you for help and input, if needed.

I encourage each of you to give this some thought between now and survey time. When the 1986 General Member Survey is printed in a few months, it will not only give you a vote and voice in how we run the club, what needs to be changed, but will give you a chance to add your name to the list of potential volunteer editors. If you desire to work as an Editor, watch for the part of the 1986 Survey! All you have to do when responding to the centerfold survey is answer the questions. We will add you to the computer list, and when there is a vacancy, you will be notified immediately by mail. At that time, you have your big chance to present your qualifications and desires in writing in competing with other members so we can pick the best member for the job!

PHOTOS FOR THE COVER ANYONE? GET TWO EXTRA MONTHS OF MEMBERSHIP!

We are proud to announce a new policy which could get two additional months added to your membership and subscription with RCMA! This is your big chance to get out into the field and have some fun with two great hobbies... photography and monitoring!

The RCMA NEWSLETTER has changed it's cover format as you have surely noticed, and we need photographs from all parts of the country for the cover. If you would like to see your photography benefit both you and your club, consider sending the Photo Editor a photo that you have taken for cover consideration! If your photo is selected for printing on the COVER of the NEWSLETTER, you will receive a two month extension to your membership subscription and two additional copies of our NEWSLTTER as a reward for your talented efforts!

Of course, there are some rules and guidelines... and here they are:

INITIAL PHOTO COVER RULES AND GUIDELINES:

1. All photos must be black and white. The 8x10 size photos are desired, however, if you have an exceptionally clear 5x7 print, it will be considered.

2. All photos become the property of RCMA and CAN NOT BE RETURNED, so don't send your only copy, as you will not get it back.

3. Sent a statement that you personally took the photograph, and that you give RCMA the right to print the photograph if selected. (It would be helpful to the Photo Editor in giving you the proper credit to know as much about the subject as possible, and don't forget to give camera data too, if you remember it!)

4. The photograph subject must be directly related to our hobby of radio monitoring or to one of the column subjects in the NEWSLETTER. (Public Safety, Marine, RR)

5. All current RCMA members are eligible to enter as many photos as they like for printing consideration. If your photo is selected, you will have a two month membership extension added to your current membership term. You many earn only ONE two month extension during any SINGLE twelve month period.

6. You are responsible for making certain the photo arrives in good condition, pay all shipping costs, and must understand that no photographs will be returned.

7. Photographs should be sent to the Photo Editor. See that column heading for the address and other statements regarding the monthly contest. The Photo Editor is the final judge regarding the selection and use of photos submitted for this purpose.

All photos will be acknowledged if you enclose a stamped, self-addressed postal card. These initial rules are for COVER photos only.

I encourage each of you photography buffs to get involved in this monthly contest! Not only will you be rewarded with the two month membership extension, but you will receive full credit in print for your selected cover photo - plus you will be doing something to help the club in print! If you have further questions, write to the Hugh Stegman, RCMA Photo Editor. DO REMEMBER to send a stamped, self-addressed envelope with your questions!

SOON YOU MAY HAVE TO DO MORE THAN JUST LISTEN!

An announcement this week that the Charlotte (NC) Police is soon going to MDT (Mobile Data Terminals) is just an indication of what is coming in police department dispatching. The officer on patrol stopping a suspect vehicle has instant NCIC and state crime data at his fingertips. He can send a vehicle license number or drivers license number on his MDT terminal and know in a matter of seconds if the car is stolen or if the "license left at home" is truly revolved. Firearm serial numbers and other identifications are instantly identifiable by radio with the touch of the MDT keys.

What does this have to do with your hobby of monitoring the local or state police, or even the fire department? It is simple. Once the MDT system is installed, not only is the system used for ID checks, but for dispatching as well. The MDT terminals and the related computer systems are being sold as fast as they can be made. It will be only a matter of time until your favorite dispatcher will be sitting at the keyboard more than at the microphone. The Palm Beach County (FL) Sheriff is now dispatching most of the routine calls by MDT rather than by voice. It works very well. If the officer is out of the patrol car when the call is dispatched, the MDT just beeps to indicate there is a waiting message until the officer returns and punches the acknowledgement button. And, as a side benefit, there is no need for expensive encrypting equipment. The high speed data bursts are not readable without a receiving terminal.

MDT reception and reading is a very interesting part of our radio hobby. With MDT becoming more widely used, a detailed article in the SPECIAL FEATURE section would be very interesting to all RCMA members. If you understand the system, and if you would like to write an article on the subject, you could certainly benefit your fellow club members with details on MDT and how it works - and what it takes to receive and print out the messages at home. Wouldn't it be nice if after the Saturday night dinner and movie, you could return home and read what has been going on in town while you were out!

As most of you know, the SPECIAL FEATURE column is in our RCMA NEWSLETTER for just this purpose... to let those of you who know lots about specialized subjects express yourself in special feature articles. If you are interested, write me for details on how to get your article in print! All of us would be happy to share your knowledge!

NEW SCANNING PUBLICATIONS

The American Radio Relay League (ARRL) of Newington, CT 06111 has announced the release of two annual publications which should interest you. First, the ARRL REPEATER DIRECTORY is out for 1986. The small, pocket sized publication is a complete directory of all amateur repeaters. The DIRECTORY lists not only the location, call letters and frequency of all ham repeaters, but details about the services of the device. It is detailed, small and useful nationwide if you enjoy VHF/UHF ham radio. The REPEATER DIRECTORY is available from ARRL or your local radio dealer.

ARRL also has published their annual NET DIRECTORY. In the past, this very useful and interesting publication has been free, but with increasing size and expense, the book is now available for $1.00. The publication lists all VHF and UHF nets known to be in operation. And, it gives extensive coverage to shortwave (HF) nets also. For those of you seriously interested in keeping your shack updated, this is a useful book! The publication is available directly from ARRL.

RCMA welcomes the chance to review publications related to our hobby of radio monitoring, and we appreciate the publishers mentioning RCMA in their books as a club devoted to the hobby. We encourage our members to support those publishers and publications that mention and support RCMA.

CLOSING COMMENTS FOR JULY

Our Annual Member Survey will be printed very soon. I strongly encourage each of you to take the time to respond to our yearly questionnaire. The centerfold pull out will be

printed shortly, and will be designed to give you a chance to voice your views on what we will be changing and doing for 1987. The 1985 Survey gave us lots of data on what you wanted, and we have made changes as a direct result. If you are not aware of the big changes we have made, find your July 1985 issue. The NEWSLETTER has made considerable progress in just ONE year! Every change was a direct result of member input.

The soon to be printed 1986 Survey will govern our changes and directions for 1987. By all means, when it is printed... take the few minutes required to fill in the blanks, make the check marks. You pay a lot for your RCMA NEWSLETTER and the yearly membership. Take the time to voice your opinions and vote your interests in the 1986 GENERAL SURVEY! We want your input in 1986 so we can make 1987 RCMA even better and most interesting. We need and want YOUR input as a club member!

AIRCRAFT

Send private, commerical, firefighting and law enforcement aircraft frequencies of interest in the 108-136 MHz range and frequencies in other bands above 30 MHz associated with airports and aircraft plus questions, articles and tips related to aircraft monitoring to:

Darrel Charest, 1913F Oak Creek Lane, Bedford, TX 76022

It was a grand trip. Clear skies and cool weather prevailed throughout most of our visit in Arizona and California. Family commitments limited the time we could spend monitoring our favorite services. Yet we did have one special treat. We drove to Mt Hamilton which is just east of San Jose. At 4000 feet with a commanding view of the San Francisco Bay Area and a partial view of the Sacramento valley, we thought we had tuned in the world when we fired up the scanners. It seemed as though every channel had activity of some kind. My only regret is that we were able to spend but two hours listening. The Lick Observatory is located here and can provide a fascinating afternoon if you are interested in astronomy. If you make the trip, I have two suggestions. First take warm clothing, it's usually 15 to 20 degrees cooler than at the base of the mountain. Second, if anyone is prone to car sickness - leave them home.

For me one of the best parts of a trip is the return home. And after several weeks of glorious weather we drove through some torrential winds and rain during the last 150 miles. It wasn't until the next day that we learned that we had crossed the path of a tornato which had preceeded us by several hours. It wasn't quite the welcome home we had expected.

Now on to the mail.

Mike Taylor NY-310, writes to ask for information on aviation channels in his part of the country. Mike lives in upstate NY near the Canadian border and would appreciate any help you can provide. His address is P.O.BOX 55, Hammond, N.Y. 13646.

Roger Pettengill, ME-018, wrote with his list of favorite frequencies. Roger is a professional photographer and travels extensively. During the past several months he's had several interesting experiences. One of these included a flight from Boston to Dallas/Ft Worth in which he was able to monitor the frequencies (with the pilot's permission) with his Realistic Pro-30. The other was a ten day assignment on the Aircraft Carrier America while enroute to the Mediterranean just prior to confrontation with Col. Khadafy. Roger considers the highlight of the trip to be a "cat shot" from the carrier in one of the jet aircraft. Accelerating from 0 to 180 in a few seconds could be considered a breath taking experience.

C. Scott Textor, GA-005 reported that he was monitoring 45.56 and heard a mobile or handheld transceiver call Georgia Emergency Management Agency on this channel to advise that an ELT (Emergency Locater Transmitter) had gone off, and that they were receiving it from the ELT and Satellite. The same unit was also heard talking with Civil Air Patrol HQ on the same frequency.

In my reply to Scott I advised that 45.56 was in a band that I had very little experience, but appeared to be used in support of "Search and Rescue." The ELT transmits simultaneously on 121.5 and 243.0, and Civil Air Patrol and other search aircraft can use direction finding equipment to locate the lost

or downed aircraft. Although I'm not sure how it operates, at least one satellite has the ability to locate these ELT signals with a high degree of accuracy. For the ground stations that monitor 121.5/243.0 the ELT has been a source of a minor but annoying problem. Over the past 15 years, about 90% of the ELT signals have been false alarms, activated by a hard landing or the pilot hitting the wrong switch. Yet the 10% that were for real have saved many lives by leading to quick location and rescue of people involved in the accident.

Fred Mona, NY-220, wrote to give us his list of frequencies for the Buffalo area, and these appear at the end of the column.

Dennis Biagioli, our Federal Editor, provides us the termial map for Chicago O'Hare airport with company frequencies.

Paul, NY-72, has compiled a very detailed listing of aircraft channels for the Minneapolis area. Not only has he listed these in alphabetical order, but also by frequency, listing all 720 aircraft channels.

During the past year your great response has made the job easy in preparing the Aviation Column. In preparing frequencies for publication, it would be of help to our readers to know these are confirmed channels. I have access to nearly all the civil aircraft frequencies in the U.S., but it serves little purpose to list these if they are not used. Therefore if you do submit channels for publication, please indicate those which you have heard or confirmed.

From Fred Mona, NY-220

Buffalo International Airport

120.5	Tower	123.8	East Approach	133.95	Holland, NY
121.9	Ground	124.7	Clearance	135.775	Holland, NY
122.0	Flight Watch	126.15	Departure	127.45	Holland, NY
122.2	FSS	126.5	West Approach	128.65	Bradford, Pa
122.6	FSS	135.35	ATIS		
122.95	Unicom				

Cleveland ARTC Center

From Roger Pettengill, ME-018

Boston ARTC Center		Montreal Area Center	Moncton Area Center
120.25		133.4	124.3
124.25		132.55	132.5
128.05	HL	134.5	132.2
128.2		135.025	134.8
133.25	HL		132.7
133.45	HL		
134.95	HL		

Bangor International Airport

120.7	Tower	121.9	Ground	125.6	ATIS
125.3	App/Dep W	124.5	App/Dep E	132.0	Ops

Loring AFB

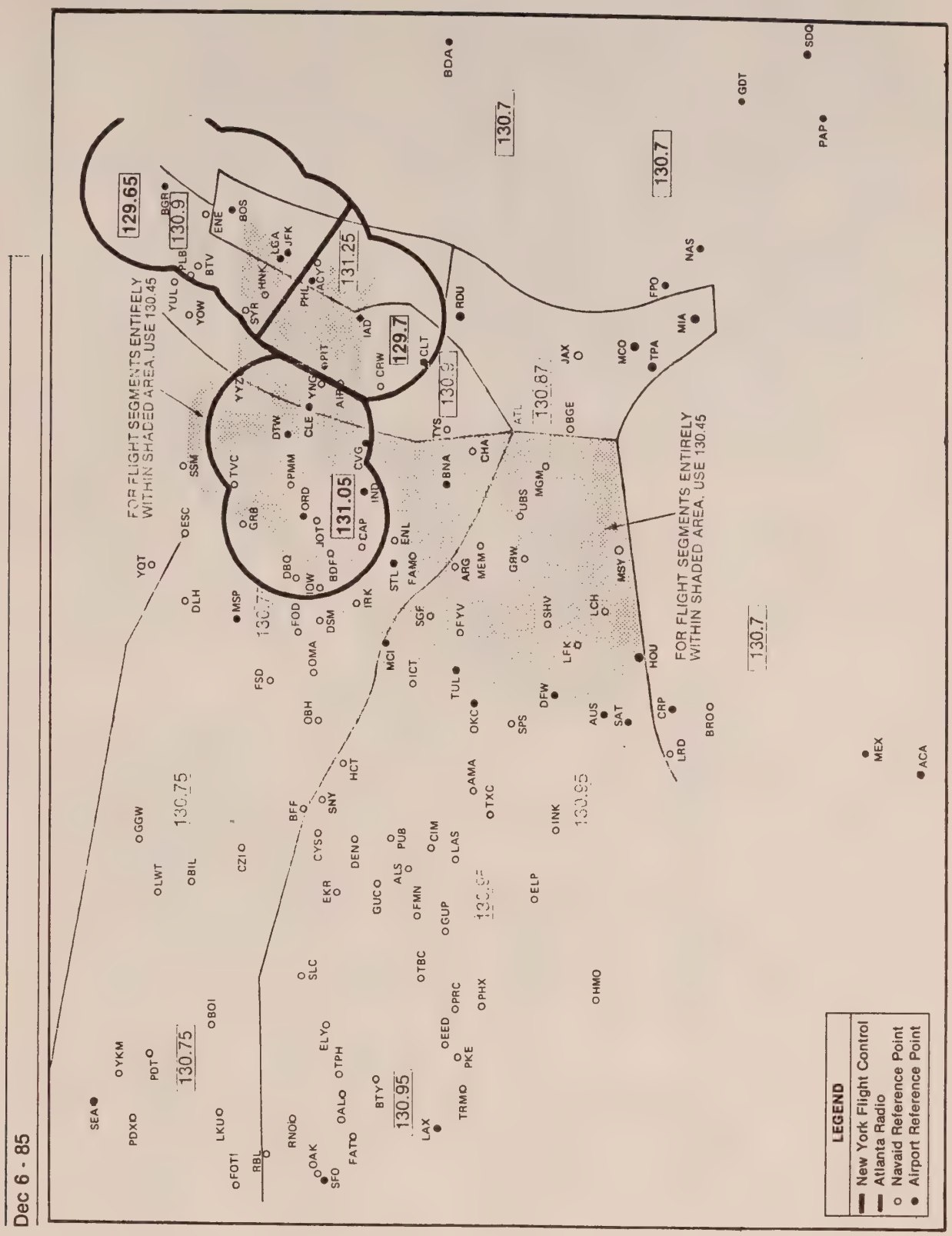
12.62	Tower	124.7	App/Dept

Company enroute frequencies with remote sites at Bangor

129.65	Pan Am	131.3	ARINC	129.75	Air France
130.125	Swiss Air	131.9	Delta	129.55	Bar Harbor

Others heard in Central Maine:

129.9	ARINC (JFK)	130.45	SAS/KLM	129.15	Speedbird
129.45	Gander Ops				



From Paul, NJ-72

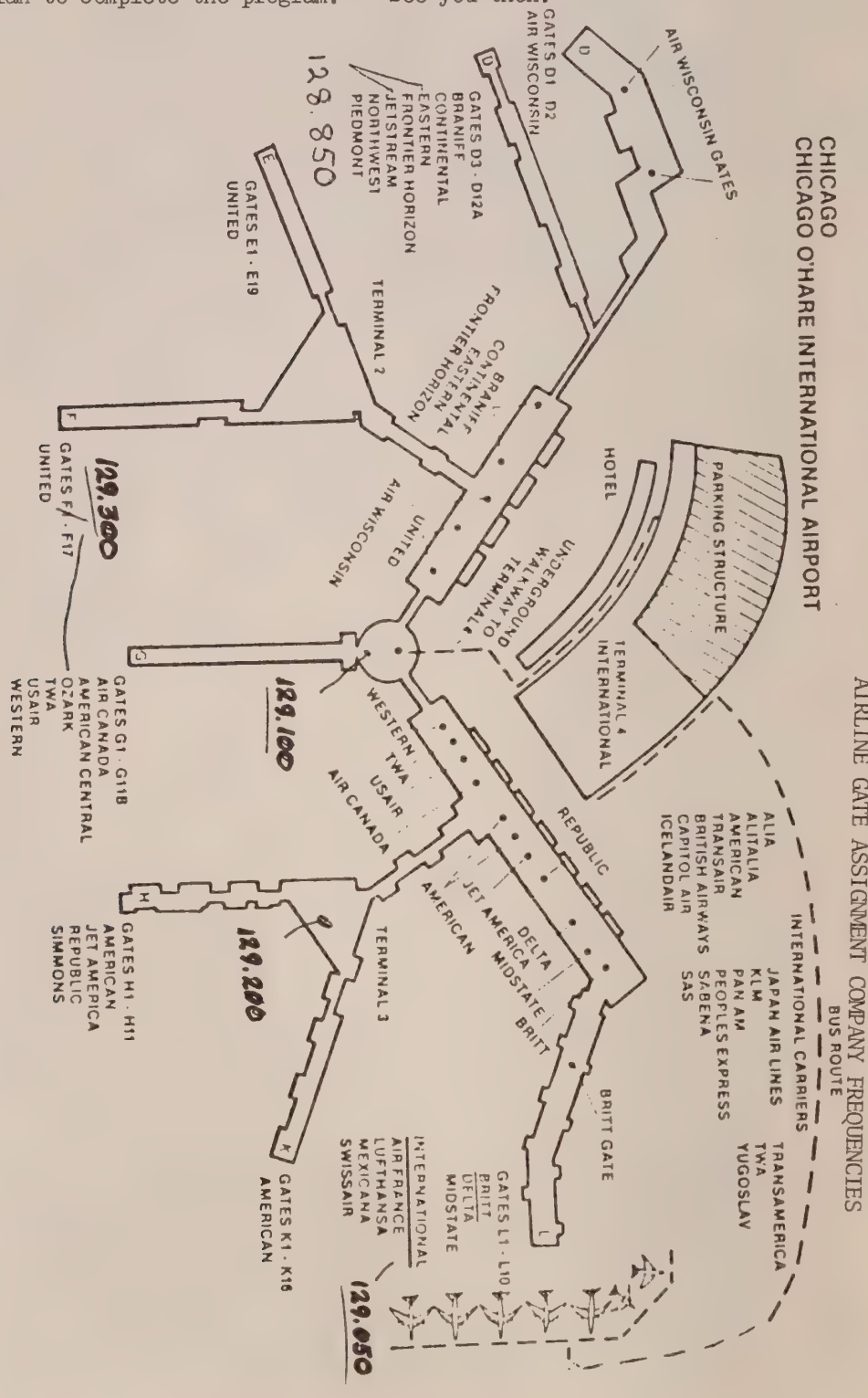
For the Minneapolis area

125.7	ATIS Crystal	131.45	Northwest	133.4	MSP ARTCC
135.35	ATIS Minneapolis	131.9	Northwest	134.75	MSP ARTCC
120.8	ATIS MSP TCA Info	131.7	Northwest	124.4	MSP ARTCC
122.2	FSS Minneapolis	129.3	NW Gate Dispatch	133.8	MSP ARTCC
123.45	Airline Air/Air	129.9	Ozark	125.5	MSP ARTCC
129.925	ARINC	130.55	Ozark	132.4	MSP ARTCC
131.5	ARINC	129.45	People Express	133.55	MSP ARTCC
128.925	ARINC	130.525	People Express	134.55	MSP ARTCC

AIRCRAFT continued

130.4	ARINC	129.75	Piedmont	127.9	MSP ARTCC
129.55	ARINC	129.8	Republic	133.75	MSP ARTCC
130.85	ARINC	131.95	United (CHI)	125.3	MSP ARTCC
131.05	ARINC	130.10	Western	127.75	MSP ARTCC
131.225	ARINC	129.10	Western	127.35	MSP ARTCC
131.825	ARINC	125.0	MSP Approach	134.85	MSP ARTCC
130.0	ARINC	121.1	Lacross Wi. A/C	134.45	MSP ARTCC
129.2	American (CHI)	119.3	MSP Approach	120.3	MSP ARTCC
130.25	American (CHI)	126.95	MSP Approach	132.15	MSP ARTCC
128.9	Burlington Northern	121.2	MSP Approach	133.45	MSP ARTCC
130.9	Continental	133.6	CHI ARTCC	124.2	MSP ARTCC
130.75	Eastern	127.05	CHI ARTCC	128.6	MSP ARTCC
131.925	Federal Express	132.725	CHI ARTCC	132.45	MSP ARTCC
131.325	Midway	132.75	CHI ARTCC	127.3	MSP ARTCC

This is but a partial listing of frequencies submitted by Paul, next month we plan to complete the program. See you then.



AMATEUR RADIO COMMUNICATIONS

This column is for reporting on amateur radio activities that may be of interest to scanner listeners. Send reports and questions concerning repeater nets, civil emergency systems, packet ratio, amateur TV, etc., to:

Terry Stader, MI-062, 8 Christopher Road, Westford, MA 01886

GREETINGS.....The season is upon us for all the outdoor activities we have looked to all winter to do. By the time you are reading this most of the hamfests/flea markets/spring house cleaning will have taken place. The biggest hamfest of all in Dayton, Ohio will have taken place on April 25th thru the 27th. A lot of hams will be both drooling and shuddering at the prices of all the new equipment available! Field Day will be happening the last weekend in June (28 & 29), another chance for you non-hams and hams alike to see amateur radio stations in operation under less than ideal conditions. - Although... I have read of those who have operated quite elaborate Field Day sites! Things have been pretty hectic around here lately. Most of my activities have been involved with getting ready for Field Day.

I have received some good contributions this past month... Ken Pehl, N5CND (TX-3), whom I might add is the one of our editors for the Public Safety-South Central region. Most of the printout is self explanatory but Ken points out that those "+"'s in the "C" column mean that they are confirmed. He also notes that "2/4 Su" indicates second and fourth Sunday. Thanks Ken.

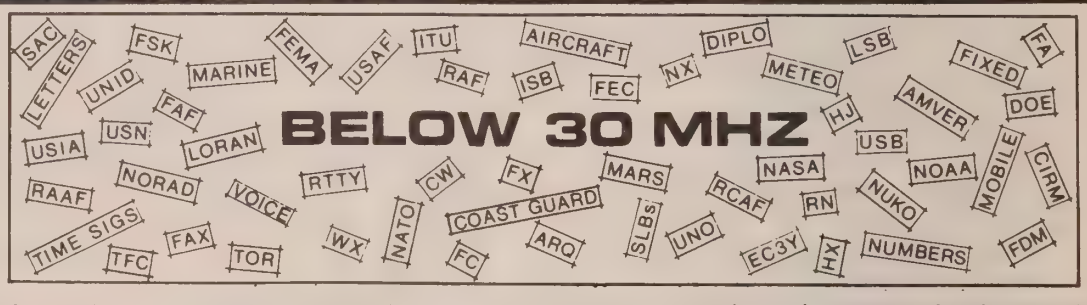
Emergency/Traffic Nets
Mar 22 1986
Times in CST unless noted otherwise
+ indicates confirmed

C	Name of Net	Freq	Day	Time	Remarks
+	7290 Traffic Net	7.290	Daily	1000	10-12M-S/1-2M-F
+	Bexar Co. SKYWARN Net	146.940	*	*	* - as needed
	Big Bend Emergency Net	3.922	Sun	0830	
+	Central Gulf Coast Hurricane Net/ Day	7.235	*	*	* - as needed
+	Central Gulf Coast Hurricane Net/ Nite	3.935	Daily	1900	
+	Central TX (Austin) Weather/SKYWARN Net	146.940	*	*	* - as needed
+	Central TX Emergency Net	3.910	Sun	0800	
+	Gillespie Co. Amateur Radio Net	146.760	Tues	2000	
	Gulf Coast Hurr. Disaster Net	4.4675	Tues	1915	?NOAA/NWS/?MARS
	Gulf Coast Hurr. Disaster Net	4.627	Tues	1900	?NOAA/NWS/?MARS
+	Hill Country FM Net (Kerrville TX)	146.980	Mon	1900	
	Inter-State Net	3.985	Daily	1900	
+	Internat'l Hurricane Watch Net	14.325	*	*	* - as needed
+	Kendall Co. ARS Net	146.640	Mon	1930	
+	Maritime Mobile Net/Internat'l Svc Net	14.313	Daily	Cont	
	N.E. TX Emergency Net	3.970	Sun	0800	
+	Panhandle Traffic & Emerg Net	3.933	Daily	1800	
+	RACES (Texas) Statewide Net/ Day	7.2485	2/4 Su	1330	
+	RACES (Texas) Statewide Net/ Nite	3.9965	*	*	* - as needed
	RACES Statewide Disaster Tac/ Day	7.245	*	*	* - as needed
	RACES Statewide Disaster Tac/ Nite	3.915	*	*	* - as needed
+	San Antonio Rainfall Net	146.940	Daily	2000	
	South Texas Emergency Net;40m section	7.248	Mon	1900	
+	South Texas Emergency Net;75m section	3.955	Wed	1900	
+	South Texas Emergency Net;Admin. Net	3.955	Mon	1830	business net
+	South Texas Emergency Net;CW section	3.693	Tues	1930	2000 CDT
	South Texas Emergency Net;Weather Net	3.955	Daily	2100	?inactive
	South Texas Emergency Net;Zone 1	3.955	Sun	0730	
	South Texas Emergency Net;Zone 2	3.955	Thurs	1815	?inactive
	South Texas Emergency Net;Zone 4	3.955	Sun	0900	
+	SouthWest Traffic Net	3.935	Daily	2130	
+	Texas CW Traffic Net (TEX)	3.697	Daily	1900	& 2200
	Texas PON Net	3.978	M-F	1830	? on time
	Texas PON Net	7.245	Sat	1000	

	Texas RACES Dist 22 Net	7.2485	Wed	1900	?inactive
+	Texas RACES Dist 31 Net	7.2485	Sun	1245	
+	Texas RACES Dist 32 Net	7.2485	1/3 Su	1330	& 5th Sun
+	Texas Slow Net/Novice CW (TSN)	3.745	Daily	2000	
+	Texas Traffic Net (TTN)	3.873	Daily	1800	1830 CDT
+	W. Harris Co. ARES Net/ Day	7.251	*	*	* - as needed
+	W. Harris Co. ARES Net/ Nite	3.915	*	*	* - as needed
	West Gulf Coast Hurricane Net	3.9435	Sun	0800	

Also from **Joe Velasquez, KB6HAH, CA-SO-006** some local information from his listening area. Joe says his favorite bands are 2 meters and 440Mhz. Here are some of the Nets he listens to in the Bay and Sacramento Valley areas:

147.195	9:00PM	Sunday.	Westlink report repeated from the 444.625Mhz in San Jose
147.735	7:00PM	Monday	Benicia ARES Net
147.735	7:30PM	Monday	Contra Costa Repeater Assoc. Net
147.735	7:00PM	Tuesday	Salano County ARES Net
145.45	7:30PM	Monday	Las Cumbres/Hewlett Packard Club Net
147.195	7:30PM	Monday	Sacremento RACES (after Net is code practice)
147.195	8:00PM	Tuesday	Sacremento Swap Net
147.00	9:00PM	Monday	Mt. Vaca Radio Club (on 444.Mhz also) xmit Westlink Report
145.21	7:00PM	Tuesday	Central Valley Health & Welfare Net Mt. Delux. Stockton
145.21	8:00PM	Thurs.	Sacremento Swap Net



This column is for HF AM, CW, SSB, RTTY and FAX reception reports, note, articles, and questions related to HF utilities. Services covered in this column include aeronautical, coastal/marine, weather, government, military and 'spy' stations — essentially everything except broadcasting, CB and amateur radio.

Send reports to: Geoff Halligey, 85 Southwood Road, Cottingham, England, HU16 5AJ.

THE SPY

He still continues on 11510 kHz - with a small but significant difference. He changed to summer (daylight saving) time on Sunday night March 30th, so that on March 31st he came up at 0745 instead of 0845 UTC.

The interesting point about this is that all of Europe, including the Eastern Bloc, and all the USSR, changed to summer time on the same date. But North Africa and the Middle East countries either do not have summer time, or change on a different date. Thus Libya, Jordan, Israel, Syria, Iran and Iraq are all ruled out as the base for this transmitter.

The recent dramatic events in Libya had no effect on the transmissions. Always 'QRU' still and a mock ham sign-off 73/88 VY

TKS VA. Once he sent TKS FOR ALL; oh, and a new callsign each day.

THE WIRELESS FILE

Last month the 50th anniversary of USIA's Wireless File was referred to in this column; this month a complete list of Wireless File transmissions is appended; all by RTTY, 425/75N:

FREQ	TX	SHOOT AREA	TIMES
5460.0	Tangier	NESA	2215 - 0745 max
6942.5	Kavalla	EUR	2230 - 0745 max
7442.5	Monrovia	AFR	2330 - 0530 max
7478.0	Monrovia	AFR	2330 - 0445 max
9855.0	Tangier	EUR	2230 - 0745 max
10235.0	Greenville	NESA	2200 - 2400
10380.0	Greenville	AFR	0800 - 1500 max
10410.0	Kavalla	NESA	2215 - 0745 max
10880.0	Monrovia	AFR	2330 - 0245
10972.0	Tangier	EUR	2230 - 0745 max
12223.5	Tangier	NESA	2215 - 0745 max
13770.0	Tangier	AFR	0800 - 1330
		NESA	2215 - 0745 max
13995.0	Monrovia	AFR	2330 - 0445 max
14526.0	Philippines	EAP	0000 - 0630 max
14638.0	Greenville	AmR	1600 - 2345 max
15875.0	Monrovia	AFR	2330 - 0530 max
18215.0	Greenville	AmR	1600 - 2300 max
18542.5	Greenville	AmR	1600 - 2300 max
19792.5	Philippines	EAP	0000 - 0630 max
19915.0	Tangier	AFR	0800 - 1330 max
20482.5	Philippines	EAP	0000 - 0630 max
23770.0	Greenville	AmR	1600 - 2330 max
25705.0	Philippines	AFR	0800 - end
26000.0	Philippines	EAP	0000 - 0630 max

Only a very few of the above transmissions are scheduled for Sundays or Mondays; Tuesdays through Saturdays is the norm.

Locations:

Tangier, Morocco	Monrovia, Liberia
Kavalla, Greece	Greenville, N.Carolina

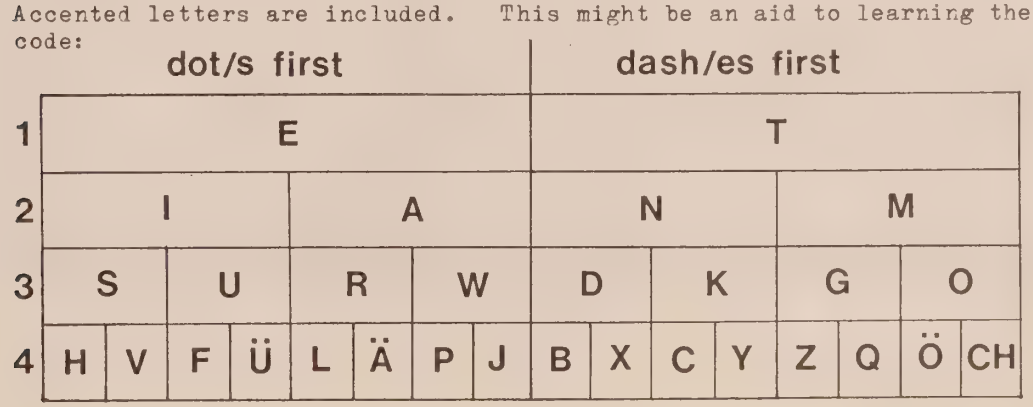
Shoot Areas

AFR	Africa
AmR	American Republics (Central & S. America)
EAP	Eastern Asia & Pacific
EUR	Europe
NESA	Near East & S. Asia

MORSE CODE

After fifty-odd years brass-pounding, your Editor thought he knew all there was to know about the Morse Code, but here is an intriguing diagram, not seen before. Surprisingly, it was first published in the 'I & R Bulletin' in 1932 and reproduced in the May '86 issue of the U.K. publication 'Practical Wireless'.

The diagram shows how the units (dots and dashes) of the code are built up from one to four, as indicated on the left hand side. Accented letters are included. This might be an aid to learning the code:



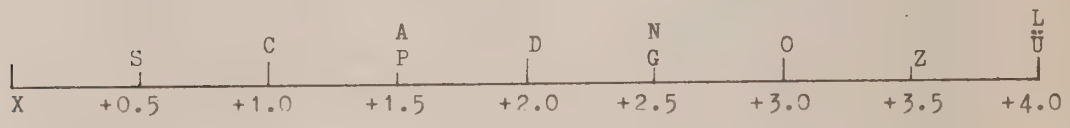
CHANNEL MARKERS - A NEW CLUSTER

In the June and August, '85 issues lists of the known Channel Marker clusters were given. Now a new one has appeared, namely, 4301.0 to 4305.0 kHz.

Letters so far heard are C, P and O at 4302.0, 4302.5 and 4304.0 kHz respectively. These fit exactly into the pattern established earlier. Weak in the U.K., like the 3563 - 3567 cluster, it starts coming in at about 1800 and continues after midnight, but is gone by 0700.

For the benefit of new members, here is a recap of the frequencies and distribution of the letters (the letters appear in the same position in each cluster). The lowest frequency (X on the diagram) of each cluster is given in each case:

3563.0	6801.0	13635.0
4301.0	8645.0	17015.0
5305.0	10643.0	20991.0



Other letters (F & I) have been heard from time to time and often there are two O's on together on the same frequency, one weaker than the other.

NUMBERS AND LETTERS

One new one to report:

11565.0 USB EZI 5-letter groups, usual Mossad (Israel) format 0930 Apr. 17.

All for now.

Geoff

BUSINESS, ETC.

This column is for reporting frequency and radio system information for the following varied services: business, forest products, petroleum industry, special industrial, manufacturers, news media (behind-the-scenes radio, TV & newspaper), motion picture industry, security (private patrol, detective agencies, campus security & police, amusement park & stadium security, shopping center & mall security, plant/business/hotel security, etc.) General Mobile Radio Service (GMRS), mobile phone/RCC & paging, trucking firms, bus lines, taxi cabs, tow trucks, utility companies (private & municipal water, power, electric, gas, telephone, etc.), and all school & college related frequencies. Send information and questions pertaining to the radio services covered in this column to:

Send Business monitoring information East of the Mississippi to:
Brandt Niemuth, P.O. Box 541, Rosemont, IL 60016

Due to being unable to read the handwriting of the one and only contribution, there is no output.
Please remember, if I can not read them, I can not print them.

Send Business monitoring information West of the Mississippi to:
Cliff Polkinghorn, 14310 Acacia St., San Leandro, CA 94579

NO COLUMN THIS MONTH

"The Largest Dealer of Scanners in the World"

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Z30 FEATURES:

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- **AC or DC**—Use at home or on the go. AC Home Power Cord Included.
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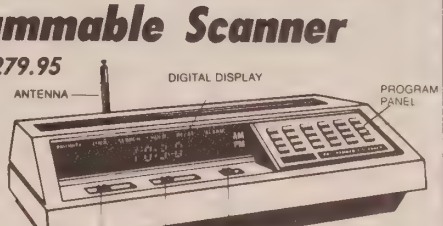
- **UL Listed/FCC Certified** Assurance of quality, American made design and manufacturer, made in USA.

Suggested Factory List Price $279.95

Scanner World Special
REGENCY Z30
$129.99
(plus $5.50 shipping each)

Optional Accessories:
Cigarette Lighter Plug RGMPC . $4.95
Z Mobile Bracket — ***Special*** . . . $5.99



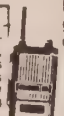
The Regency Z30 is a compact, programmable 30 channel, multi band, FM monitor receiver for use at home or on the road. It is double conversion, super heterodyne used to receive the narrow band FM communications in the amateur, public safety and business bands: 30-50, 144-174, and 440-512 MHz. Size 10¾"Wx2-7/8"Hx8-3/8"D.

Sophisticated microprocess-controlled circuitry eliminates the need for crystals, instead, the frequency for each channel is programmed through the numbered keyboard similar to the one used on a telephone. A "beep" acknowledges contact each time a key is touched. The Z30 scans approximately 15 channels per second.

Any combination of two to thirty channels can be scanned automatically, or the unit can be set on manual for continuous monitoring of any one channel. In addition, the search function locates unknown frequencies within a band.

Other features include scan delay, priority and a bright/dim switch to control the brightness of the 9-digit Vacuum-Fluorescent display. The Z30 can be operated on either 120 VAC or 12 VDC. Includes one year warranty from Regency Electronics (optional 3 yr extended warranty only $35, gives you a total of 4 yrs complete warranty or 2 yr extended warranty only $25, gives you a total of 3 yrs complete warranty.)

REGENCY HX1200



Digital programmable 45 channel hand-held Scanner. Frequency coverage 30-50MHz, 118-136MHz, 144-174MHz, 406-420MHz, 440-512MHz. Covers public service bands plus Aircraft. Has priority, search, lockout, scan plus much more. Package includes HX1200, AC charger/adapter, ni-cad battery, carry case, rubber antenna and 90 day factory warranty.

Complete package only . . . . **$216.95** *(6.50 shipping)*
(3 year extended warranty only $35.00, 2 year $25.00)

BEARCAT 50XL Programmable Hand-Held	124.99	(5.00)
AD100U AC Adapter/Charger for 50 XL	12.95	(*)
BP50 Ni-Cad Battery Pack for 50XL	12.95	(*)
BEARCAT 180 AC Digital Scanner	159.99	(5.00)
BEARCAT 140 AC Programmable Scanner	94.99	(5.00)
BEARCAT 145XL AC Programmable Scanner	104.99	(5.00)
BEARCAT 175XL AC Digital Scanner	159.99	(5.00)
BEARCAT 100XL Digital Hand-held	199.99	(6.50)
BEARCAT 210XW AC/DC Digital Scanner	199.99	(6.50)
BEARCAT 15 AC/DC Crystal Scanner	99.99	(5.00)
BEARCAT 20/20 AC/DC Digital Scanner	229.99	(5.50)
BEARCAT 260 AC/DC Digital Scanner	219.99	(6.00)
BEARCAT 300 AC/DC Digital Scanner	239.99	(7.00)
BEARCAT 800 XLT AC/DC Digital Scanner	319.99	(6.00)
BEARCAT DX-1000 Shortwave Receiver	439.99	(12.00)
REGENCY HX-1200 Digital Hand-held 45 Channel	216.99	(6.50)
REGENCY MA-257 Cigarette cord for HX1000/1200	16.99	(*)
REGENCY MA-917 Ni-cad Battery for HX1000/1200	24.99	(*)
REGENCY HX-CASE Hvy Leath. case for HX1000/1200	34.99	(*)
REGENCY MA-256 Drop in charger for HX1000/1200	89.99	(3.50)
REGENCY R-1060 Programmable 10 chan. AC Scanner	94.99	(5.00)
REGENCY HX-2000 Digital Hand-Held	299.99	(6.50)
REGENCY MX-3000 AC/DC Digital Scanner	198.99	(6.50)
REGENCY MX-4000 AC/DC Digital Scanner	319.99	(6.50)
REGENCY MX-5000 AC/DC Digital Scanner	329.99	(6.50)
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FOX Mounting Bracket for BMP-1060	9.99	(*)
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CANADA

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Rob Berezowski, 310-4045 Rae St, Regina, Saskatchewan, Canada S4S 6Y8

Greetings from Canada! Expo 86 opening ceremonies are this week. Last minute work is being done, and so far all is "go!" The Expo organizers had a "dry run" over the weekend with Expo staff family members as guests. All went extremely well except for problems with long lines. Current estimates indicate about 17 million visitors, with the site capable of holding about 250,000.

All security arrangements for Expo are in place. Primary site security is handled by Expo Security. They will have approximately 400 security staff on site. Dispatch operations are handled from the Emergency Services Control Centre. The Control Centre has television monitors installed connected to cameras at various points on the site. Protection against possible terrorist attack is a major concern. The recent threats made by Khadafy are being taken seriously. Officials don't believe there is much chance of an attack.

The Vancouver Police Dept is also heavily involved with security. The Police Dept has set up a 48 member "Expo Squad." This unit has been and will continue to work closely with the Expo site security people and the 17 member Vancouver Police Intelligence Unit.

Security officials will have the vast resources of the Vancouver Police Dept and the RCMP at their disposal. The 47 member Vancouver PD Emergency Response Team (i.e. SWAT) will be available should any need arise. The BC Mainland/Lower Fraser Valley has the highest concentration of RCMP anywhere in Canada. Police scuba divers are patrolling the waters of False Creek, and the RCMP will also have patrol boats in the waters adjacent to the Expo site.

Terrorism is of course only one concern for Expo officials. Crowd control, VIP security, and medical aid to name a few. Contingency plans are available for fire and medical emergencies. There are 3 First Aid Centres on site, 3 ambulances, and a staff of 151 nurses, paramedics and ambulance attendents.

Extensive television coverage is planned by the Canadian TV networks for the opening ceremonies, with Prince Charles and Princess Diana officially opening Expo. In addition to CTV television coverage, the Canadian Broadcasting Corporation, designated as the broadcast coordinator for Expo, will have cameras stationed to capture every move of the Royal couple. This includes a helicopter with a camera, a camera in a nearby boat (to cover their boat ride), and 10 additional cameras. To cover the opening ceremonies, they will use 42 additional cameras and 7 mobile units. In order to accomplish this, a large amount of temporary and permanent microwave facilities have been installed. You can expect to see a lot of microwave dishes around the site being used to carry the television coverage to the rest of the country, and around the world.

Of course the mobile radio bands (i.e. the scanner bands) have started to come alive. Sid (CANA-109) fortunately lives quite close to the site, and is able to listen in. He has sent in some corrections to my Expo columns. Sid has heard some additional frequencies in use for Expo site operations:

422.9875 / 427.9875in
460.6375 / 465.6375in (now active again)
460.9125 / 465.9125in
461.7375 / 466.7375in

As mentioned in April, Security is on 422.7375. Uses for other frequencies have not yet been confirmed.

If any visitors use the Metro Transit buses to get around, they can listen in on 157.650. West Vancouver Transit buses use 163.020.

Maverick Tour bus lines shares 451.9125 with other users.

The Harbour Masters Office for the Port of Vancouver uses 452.4875 for Port Operations. Sid has heard two boats quite often on this frequency, the "Bundy" and the "Brockton 2." With many cruise ships expected this year, this frequency should be very active.

Sid also has some corrections to my list for Fire Departments. Port Moody Fire Dept is on 159.180, not on 154.370 as I printed in May. Maple Ridge Fire Dept is on 154.370.

When a major fire occurs, it is quite common for the Fire Dept to request the natural gas and electricity to be shut off. In Vancouver, BC Hydro will dispatch gas servicemen to the fire on 149.320, while electrical service calls are on 166.290.

One unique feature about Vancouver is that it is located on the ocean (Strait of Georgia actually), as well as being only a short drive from the mountains. Sid reports that the Alpine Search and Rescue teams will use 158.865 or 149.495 if they are needed to locate missing visitors. (Sid and I both hope that this will not happen -ed)

Located on Grouse Mountain, along with numerous VHF/UHF base station and repeater transmitters covering the Vancouver region, is the SkyTram. Visitors can enjoy a great meal and a fantastic view of Vancouver and the Lower Fraser Valley from the top. Grouse Mountain Resorts were using 171.540 and 169.470 during the past ski season, so it's a good bet that the SkyTram can be heard on these frequencies.

Speaking of parks, the City of Vancouver Parks Board shares 151.355 with other city agencies. The meter maids who put a ticket on your car two seconds after the meter expires use 143.175.

One popular activity for visitors in the Vancouver area is fishing. Tourists can rent a fishing boat, complete with guide, and fish for the famous B.C. salmon. Sid passes on that the Federal Fisheries Officers use 143.145 for the Vancouver area and 143.250 for Vancouver Island. From my own sources, the following frequencies are used by Canada Fisheries & Oceans all across B.C. (including the B.C. Interior):

141.270 / 141.270	
141.750 / 141.750	
143.145 / 148.195in	(Vancouver area)
143.145 / 143.145	
143.250 / 148.250in	(Vancouver Island)
143.250 / 143.250	
143.790 / 148.630in	
143.790 / 143.790	

Sid also sent in some corrections to the News Media list that appeared in the April column. It seems that 152.930, 172.830, 450.200, and 150.070 are no longer active. Sid surmises that these reporters are now using car telephones. Sid adds these two frequencies to the list:

Vancouver Province	460.3625 / 465.3625in
Vancouver Sun	460.8875 / 465.8875in

These are the two major newspapers for Vancouver. These frequencies are used both for photographers/reporters and circulation. Most of the time Circulation is on the air, so the channel is rather boring. However when a major story occurs, the activity is interesting.

Thanks very much for that update, Sid. I'm sure I speak for all the members when I say thank you to you and the other BC members for all of your information. It is really appreciated, especially for anyone going to Expo. I know I'll be there. As they say, it is a once-in-a-lifetime experience. For anyone going have a safe and enjoyable trip.

This month I'd like to continue with my discussion of new frequency allocations. I'd like to take a few paragraphs to explain the new allocations in the 406 - 470 MHz band. Some new frequency ranges are now being used. For example, Expo 86 operations are using the 422 MHz band, and there are some new trunked systems using 422 MHz. As specified in DOC SRSP 501 (Issue 2, January 1983), here are the frequency allocations for the 400 MHz band:

CANADIAN (DOC) FREQUENCY ALLOCATIONS 406.1 - 470 MHZ

406.1125	408.9875	Conventional Simplex Systems
409.0125	409.9875	Mobile Telephone (Mobile Transmit)
410.0125	413.9875	Conventional Systems Base Transmit
414.0125	414.9875	Fixed Services
415.0125	418.9875	Conventional Systems Mobile Transmit
419.0125	419.9875	Fixed Services
420.0125	420.9875	Mobile Telephone (Base Transmit)
421.0125	422.1625	National Systems (Base Transmit)
422.1875	422.6625	Trunked Radio Systems (Base Transmit)
422.6875	424.9875	Conventional Systems Base Transmit
425.0125	425.4875	Conventional Simplex Systems
425.5125	425.9875	National Simplex Systems
426.0125	427.1625	National Systems (Mobile Transmit)
427.1875	427.6625	Trunked Radio Systems (Mobile Transmit)
427.6875	429.9875	Conventional Systems Mobile Transmit
430.0000	450.0000	(No Mobile allocations) *
450.0125	450.9875	Broadcast Auxiliary (Simplex & Duplex)
451.0125	453.0125	Conventional Systems Base Transmit
453.0375	453.9875	Conventional Systems Simplex
454.0250	454.6500	Mobile Telephone Systems Base Transmit
454.6750	455.0000	Aircraft Telephone Systems Base Transmit
455.0375	455.9875	Broadcast Auxiliary (Simplex & Duplex)
456.0125	458.0125	Conventional Systems Mobile Transmit
458.0375	458.9875	Conventional Systems Simplex
459.0250	459.6500	Mobile Telephone Systems Mobile Transmit
459.6750	460.0000	Aircraft Telephone Systems Aircraft Transmit
460.0375	464.0125	Conventional Systems Base Transmit
464.0375	465.0125	Conventional Systems Simplex
465.0375	469.0125	Conventional Systems Mobile Transmit
469.0375	469.9875	Conventional Systems Simplex

* - This band is allocated to Radiolocation systems on a primary basis, and Radio Amateur on a secondary basis.

In all cases the base-mobile separation is 5 MHz, with the mobile transmitting 5 MHz above the base frequency. For example, 413.0125B would be paired with 418.0125M. The only exception is mobile telephone service with base transmitters on 420-421 MHz paired with 409-410 MHz.

The frequencies are spaced 25 kHz apart, starting at the band edges as given above. Canadian frequencies are 12.5 kHz offset from the American frequencies. This means that we are using the 12.5 kHz splits, eg. 413.0125. The only exception is the mobile telephone band 454.025 - 455.000 paired with 459.025 - 460.000. In this case Canada uses the same frequencies (eg. 454.350) as the USA in order for subscriber equipment to be usable in both countries.

Here is a brief explanation of each of the above services.

Conventional Systems are the base/mobile and repeater systems that we are all familiar with.

Mobile Telephone (409/420 MHz) are medium capacity systems with 40 primary paired channels provided. This band is a relatively new band. The AGT Aurora and BC Tel Autotel cellular telephone systems are two examples of systems operating in this band.

(454/459 MHz) This mobile telephone band has been allocated for quite some time. This band includes the aeronautical mobile telephone service, which does not seem to be heavily used in Canada.

National Systems are systems which meet the following requirements: "operational necessity for the mobile and/or portable radio equipment to travel and be used on a regular basis, normally within all regions of the country AND operational necessity for the mobile and/or portable radio equipment to operate on the same frequency(s) at all operating locations OR to provide response to unpredictable emergencies of national geographic scope and concerns." 47 primary paired frequency channels and 20 simplex frequencies are

allocated to this service. It would be interesting and worthwhile to keep tabs on this band.

Trunked Radio Systems are those in which the communications traffic may pass through any one of the "trunked group of channels" selected automatically by the system. In more simple terms, the base station computer controls up to five separate transmitters (all located at one radio site). When the user keys his mobile radio, the computer will select a channel and signal the desired mobile units to move to that channel. All undesired mobile units will be signaled to move to another channel. The conversation will then proceed.

A block of 20 frequency pairs is provided to accomodate 4 systems of 5 channels each in a given area with a spacing between channels of 100 kHz. (i.e. frequency assignments are made at 25 kHz spacings, but channels for a particular system will be 100 kHz apart. This 100 kHz spacing is required for proper filtering and duplexing at the trunked radio system base station).

Broadcast Auxiliary Service includes broadcast pick-up, broadcast mobile operations, studio transmitter links, news reporters and photographers, and other broadcast related activities. Channelling is usually 25 kHz. Simplex, duplex and/or repeaters can be used in either of the two bands.

As in the rest of the radio spectrum, coordination is done with the FCC in the USA. Special allocation arrangements have been set up in the 421-430 MHz bands where blocks of frequency are allocated to one of the two countries depending on the geographic area. More details about allocations in the 406 to 470 MHz band can be found in DOC SRSP 501. This document is available from DOC Information Services, 300 Slater Street, Ottawa, Ontario, K1A 0C8.

That's about all for this month. I didn't have space to put in the promised frequency lists for Belleville, Brockville and Kingston. They will (hopefully) be in next months column. Before I close I'd better mention that I'm still behind in my letters (as always it seems). To those who have written, please be patient. Until next month, best wishes to you all.

COMMUNICATIONS PROFILE

Joe M. Lewis, 750 Scotland St., Dunedin, FL 33528

This column is for special projects that explain various systems in detail. Frequencies and radio codes of not only municipal agencies and certain federal government agencies may be listed, but also large businesses and corporations. The contribution must be lengthy enough that publishing it in one of the regular columns would not be possible. If you are inclined to submit a report as the one below appears, please follow No. 8 in the inside front cover of the Newsletter.

THE AMERICAN RED CROSS RADIO SYSTEM

by Mike Redman, MO-002

In response to my request in an earlier Newsletter for information on the American Red Cross nationwide radio numbering system, I am pleased to report that I received a number of replies. Some were anonymous and others came from Joe Lewis (MD 015), Ken Frey (IL 069), and Carl Guse (WI-). The responses have provided me with enough information to put it all together, and my thanks to those of you who responded, for you have made this article reality.

The American Red Cross is a non-profit association funded by benevolent grants, contributions, and the United Way. As a disaster relief organization, these activities are mandated by Congress (Act of Congress, 1/5/05, 33 Stat. 599, 36 US Code Section 1). It is generally divided into two basic programs - collection, typing, and dissemination of emergency blood and tissue supplies, and disaster relief. While the former is indeed of great importance, the latter is probably of more interest to our readers. While there are paid staff members of the Red Cross, the bulk of services are rendered by volunteers. Most of us are familiar with the shelters, food, and other forms of emergency assistance provided in large scale disasters, but there are many other services made available on a

day-to-day basis. Another organization providing similar assistance is the Salvation Army. Their assistance is provided in a similar manner with a religious accent; this spiritual counseling is indeed of great value in time of disaster. While this article will concentrate on the communications systems of the Red Cross, it is not our intent to slight the Salvation Army, and if enough material is made available to me on their communications networks nationwide, I will be pleased to do a similar article on them.

In this area (where both Salvation Army and Red Cross units are active), there are one or two disaster response units operated by the St. Louis Bi-State Chapter, American Red Cross, on the streets twenty-four hours a day. In this manner, they can respond to emergencies as they happen, with the most common response to fires. While refreshments are provided to the firefighters, aid and counseling are provided to the displaced family, called a 'burn out'. Mobile disaster response units, typically Chevrolet Suburbans, are equipped with low band mobile radio units on the local channels, cellular telephones, and, of course, scanning receivers to enhance their responses. Larger 'canteen' units are available for larger fires and disasters. The St. Louis channel plan is:

F1	47.420 TX/RX	with tone squelch	Disaster operations
F2	47.460 TX/RX	with tone squelch	Secondary channel
F3	47.420 TX/RX	no tone squelch	Disaster operations
F4	47.460 TX/RX	no tone squelch	Secondary channel

Nationwide, most systems do not use tone squelch. The local systems can disasble it in major disasters where mobile units from other areas assist, such as the 1982 flooding.

The local unit designators are 6655 to 6689. The primary disaster response units are 6681 and 6682. The author is known as 6677A. Blocks of numbers are assigned to each chapter from the National Headquarters, and each chapter assigns them as is required. As there are rarely enough to go around, letterred suffixes are added to them to expand the blocks available. The frequency 47.420 Mhz. is assigned to the Red Cross nationwide for disaster relief operations, mainly so that major disasters requiring interaction of many radio units can be accomplished. A number of local chapters use additional frequencies, mobile extenders, links, etc. These are not all listed in the material I have, and space limitation prevents listing what I do have, but a SASE from your area will get you any additional data such as call signs, added frequencies, locations of transmitters, etc. that is available. The best place to look for additional channels is close to 47.420, in the Special Emergency allocations - 47.460, 47.500, 47.540, 47.580, 47.620, or 47.660.

The American Red Cross is organized into three regions- Eastern, Midwestern, and Western. From these regions, we obtain this partial numbering plan:

National Headquarters, Washington D.C.	500 to 999
Eastern Operations Hq., Alexandria, VA.	200 to 249
Region 1: Basically CT, ME, MA, NH, NY, RI	1100 to 1999
Region 2: Basically DE, DC, MD, NJ, OH, PA, VA	2000 to 2999
Region 3: Basically NC, SC, VA, PR	3000 to 3999
Region 4: Basically AL, FL, GA, MS	4000 to 4999
Midwestern Operations Hq., St. Louis, MO.	250 to 299
Region 1: Basically IA, MI, MN, NE, WI	5000 to 5999
Region 2: Basically IL, IN, KY, MO, TN	6000 to 6999
Region 3: Basically AR, KS, LA, OK, TX	7000 to 7999
Western Operations Hq., San Francisco, CA.	300 to 349
Region 1: Basically CO, ID, MT, NM, OR, WA, AK	8000 to 8999
Region 2: Basically CA, AZ, HI, NV, UT	9000 to 9999

Nationwide allocated call signs include KA 3699 for all mobile, KGB 223 for temporary stations, and KA 35361 for mobiles on 155.265 and 155.160 Mhz., current usage unknown. In the following listings we have shown the numbering system in ascending order from March, 1985 records. The chapter name and location is shown, and any 'temporary base station' assigned number. As mentioned earlier, space does not permit listing individual call signs, transmitter sites, links, etc., but for a SASE, I will try to provide whatever

is available for your area. Send to Mike Redman, PO Box 49, High Ridge, MO. 63049. Here, then, are the individual chapter designations as of March, 1985:

Numbers	Chapter	Location	Temp. #
200 - 249	East Operations Hq.	Alexandria, VA	89
250 - 299	Midwest Operations Hq.	St. Louis, MO	88
300 - 349	West Operations Hq.	San Francisco, CA	73
500 - 999	National Headquarters	Washington, DC	
1100 - 1104	S.E. Fairfield County	Bridgeport, CT	
1105 - 1119	Greenwich	Greenwich, CT	36
1120 - 1144	Grtr. Hartford	Farmington, CT	
1145 - 1149	Milford	Milford, CT	
1150 - 1154	So. Central CT	New Haven, CT	
1155 - 1159	Stamford	Stamford, CT	
1160 - 1164	Wallingford-Meridian	Wallingford, CT	
1165 - 1179	Waterbury Area	Waterbury, CT	37
1180 - 1184	Pine Tree	Bangor, ME	97
1185 - 1189	Kennebec Valley	Hallowell, ME	
1190 - 1194	Sanford - Springvale	Sanford, ME	
1195 - 1199	Grtr. Beverly	Beverly, MA	
1200 - 1299	Massachusetts Bay	Boston, MA	76
1300 - 1309	Old Colony	Brockton, MA	60
1310 - 1319	Grtr. Fall River	Fall River, MA	
1320 - 1329	Grtr. Lawrence	Lawrence, MA	20
1330 - 1344	Grtr. Lowell	Lowell, MA	43
1345 - 1364	Cape Cod	Hyannis, MA	
1365 - 1374	New Bedford	New Bedford, MA	
1375 - 1389	Pioneer Valley	Springfield, MA	86
1390 - 1419	Central Massachusetts	Worchester, MA	55
1420 - 1434	Cheshire County	Keene, NH	
1435 - 1449	Nashua	Nashua, NH	63
1450 - 1459	Albany Area	Albany, NY	57
1460 - 1464	Broome County	Binghampton, NY	53
1465 - 1489	Grtr. Buffalo	Buffalo, NY	46
1490 - 1499	Chemung County	Elmira, NY	
1500 - 1599	Grtr. New York	New York, NY	8
1600 - 1614	Chatauqua County	Jamestown, NY	
1615 - 1619	Corning	Corning, NY	
1620 - 1624	Adirondack	Glen Falls, NY	
1625 - 1629	Ithaca	Ithaca, NY	
1630 - 1634	Clinton- N. Essex	Plattsburgh, NY	
1635 - 1649	Suffolk County	Patchogue, NY	
1650 - 1654	Port - Pike	Port Jervis, NY	
1655 - 1674	Rochester -Monroe Co.	Rochester, NY	
1675 - 1689	Schenectady	Schenectady, NY	
1690 - 1714	Syracuse - Onandaga Co.	Syracuse, NY	98
1715 - 1739	Nassau County	Mineola, NY	
1740 - 1749	Westchester County	White Plains, NY	52
1750 - 1769	Grtr. Rhode Island	Providence, RI	
1770 - 1774	Central Rhode Island	Warwick, RI	
1775 - 1779	Westerly - S. Kingston	Westerly, RI	
2000 - 2014	Delaware	Wilmington, DE	
2015 - 2029	District of Columbia	Washington, DC	28
2030 - 2044	Baltimore Regional	Baltimore, MD	39
2045 - 2049	Prince Georges County	Hyattsville, MD	
2050 - 2054	Wicomico County	Salisbury, MD	
2055 - 2064	Montgomery County	Silver Springs, MD	
2065 - 2069	Camden County	Camden, NJ	72
2070 - 2074	Cape May County	Cape May, NJ	
2075 - 2079	Essex	E. Orange, NJ	
2100 - 2119	E. Union County	Elizabeth, NJ	
2120 - 2129	Hudson County	Jersey City, NJ	
2130 - 2139	Millburn - Short Hills	Millburn, NJ	
2140 - 2144	Central New Jersey	New Brunswick, NJ	42
2145 - 2159	Monmouth County	Shrewsbury, NJ	51
2160 - 2179	Ocean County	Tom's River, NJ	
2180 - 2184	Trenton Area	Trenton, NJ	66
2185 - 2199	Westfield - Mountainside	Westfield, NJ	
2200 - 2214	Summit County	Akron, OH	

Numbers	Chapter	Location	Temp. #
2215 - 2224	Alliance	Alliance, OH	
2225 - 2239	Barberton	Barberton, OH	
2240 - 2249	Canton	Canton, OH	7
2250 - 2349	Cincinnati Area	Cincinnati, OH	60
2350 - 2364	Columbua Area	Columbus, OH	26
2365 - 2389	Grtr. Cleveland	Cleveland, OH	34
2390 - 2399	Delaware County	Delaware, OH	
2400 - 2449	Dayton Area	Dayton, OH	85
2450 - 2464	Lorain County	Elyria, OH	12
2465 - 2469	Hancock County	Findlay, OH	
2470 - 2484	Fostoria	Fostoria, OH	
2485 - 2489	Hamilton Area	Hamilton, OH	31
2490 - 2494	Allen County	Lima, OH	
2495 - 2504	Union County	Marysville, OH	
2505 - 2509	Holmes County	Millersburg, OH	
2510 - 2514	Richland County	Mansfield, OH	
2515 - 2524	Middletown Area	Middletown, OH	
2525 - 2539	Marion County	Marion, OH	
2540 - 2544	Muskingum Lakes	New Philadelphia, OH	
2545 - 2549	Putnam County	Ottawa, OH	
2550 - 2564	Lake County	Painesville, OH	
2565 - 2569	Portage County	Ravenna, OH	
2570 - 2579	Clark County	Springfield, OH	
2580 - 2594	Seneca County	Tiffen, OH	
2595 - 2619	Grtr. Toledo Area	Toledo, OH	5
2620 - 2624	Wayne County	Wooster, OH	
2625 - 2629	Trumbull County	Warren, OH	
2630 - 2644	Mahoning County	Youngstown, OH	
2645 - 2684	Lehigh County	Allentown, PA	44
2685 - 2699	Bethlehem Area	Bethlehem, PA	2
2700 - 2704	Easton	Easton, PA	
2705 - 2729	Harrisburg Area	Harrisburg, PA	93
2730 - 2749	Lancaster County	Lancaster, PA	
2750 - 2759	Lower Bucks County	Langhorne, PA	
2760 - 2764	Lebanon County	Lebanon, PA	
2765 - 2814	S. E. Pennsylvania	Philadelphia, PA	
2815 - 2829	Berks County	Reading, PA	
2830 - 2834	Lycoming County	Williamsport, PA	
2835 - 2844	Arlington County	Arlington, VA	
2845 - 2854	Fairfax County	Fairfax, VA	
2855 - 2859	Harrisonburg/Rockingham Counties	Harrisonburg, VA	58
3000 - 3014	Asheville Area	Asheville, NC	
3015 - 3039	Grtr. Carolinas	Charlotte, NC	30
3040 - 3049	Durham	Durham, NC	
3050 - 3054	Pasquotank County	Elizabeth City, NC	
3055 - 3069	Triangle Area	Raleigh, NC	
3070 - 3074	Greensboro	Greensboro, NC	
3075 - 3084	Cape Fear	Wilmington, NC	
3085 - 3089	Scioto Valley	Portsmouth, OH	
3090 - 3094	Puerto Rico	San Juan, PR	
3095 - 3099	Anderson County	Anderson, SC	99
3100 - 3104	Cherokee County	Gaffney, SC	
3105 - 3109	Laurens County	Laurens, SC	
3110 - 3119	Carolina/Low Country	Charleston, SC	
3120 - 3129	Central South Carolina	Columbia, SC	
3130 - 3139	Greenville County	Greenville, SC	
3140 - 3164	Piedmont	Spartenburg, SC	
3165 - 3169	Hampton Roads	Newport News, VA	
3170 - 3184	Tidewater	Norfolk, VA	13
3185 - 3199	Portsmouth	Portsmouth, VA	90
3200 - 3214	Virginia Capitol	Richmond, VA	23
3215 - 3229	Roanoake Valley	Roanoake, VA	
4000 - 4014	Birmingham Area	Birmingham, AL	18
4015 - 4024	Madison County	Huntsville, AL	22
4025 - 4044	Mobile County	Mobile, AL	15
4045 - 4054	Montgomery Area	Montgomery, AL	
4055 - 4059	Tuscaloosa County	Tuscaloosa, AL	
4060 - 4069	Upper Pinellas	Clearwater, FL	

Numbers	Chapter	Location	Temp. #
4070 - 4084	Daytona Beach Area	Daytona Beach, FL	35
4085 - 4099	Broward County	Ft. Lauderdale, FL	
4100 - 4124	Lee County	Ft. Meyers, FL	
4125 - 4129	Brevard County	Melbourne, FL	
4130 - 4134	Okaloosa County	Ft. Walton Beach, FL	
4135 - 4154	Northeast Florida	Jacksonville, FL	
4155 - 4159	Grtr. Lakeland	Lakeland, FL	
4160 - 4169	Manatee County	Bradenton, FL	
4170 - 4189	Dade County	Miami, FL	
4190 - 4214	Central Florida	Orlando, FL	62
4215 - 4224	Bay County	Panama City, FL	
4225 - 4234	Sarasota	Sarasota, FL	
4235 - 4264	Pensacola	Pensacola, FL	
4265 - 4274	South Pinellas County	St. Petersburg, FL	
4275 - 4284	Tallahassee	Tallahassee, FL	
4285 - 4304	Grtr. Tampa	Tampa, FL	
4305 - 4319	Palm Beach County	W. Palm Beach, FL	
4320 - 4354	Metro Atlanta	Atlanta, GA	59
4355 - 4374	Albany	Albany, GA	
4375 - 4384	Cedartown	Cedartown, GA	
4385 - 4389	Macon	Macon, GA	
4390 - 4399	Moscogee County	Columbua, GA	
4400 - 4414	Savannah	Savannah, GA	
4415 - 4424	Mississippi Gulf Coast	Biloxi, MS	
4425 - 4439	Central Mississippi	Jackson, MS	
4440 - 4449	Key	Meridian, MS	
4450 - 4454	Union County	New Albany, MS	
5000 - 5034	Grantwood Area	Cedar Rapids, IA	92
5035 - 5044	Central Iowa	Des Moines, IA	91
5045 - 5049	Marshall County	Marshalltown, IA	
5050 - 5054	North Central Iowa	Mason City, IA	
5055 - 5059	Muscatine County	Muscatine, IA	
5060 - 5069	Pottawattamie County	Council Bluffs, IA	
5070 - 5079	Dubuque Area	Dubuque,IA	79
5080 - 5084	Siouxland	Sioux City, IA	
5085 - 5114	Hawkeye	Waterloo, IA	
5115 - 5139	Washtenaw County	Ann Arbor, MI	
5140 - 5149	Calhoun County	Battlecreek, MI	
5150 - 5184	Southeast Michigan	Detroit, MI	65
5185 - 5199	Genessee - Lapeer	Flint, MI	
5200 - 5219	Kalamazoo County	Kalamazoo, MI	
5220 - 5229	Kent County	Grand Rapids, MI	
5230 - 5239	Midland County	Midland, MI	
5240 - 5254	Mid-Michigan	Lansing, MI	
5255 - 5264	Muskegon - Oceana	Muskegon, MI	
5265 - 5289	Minneapolis Area	Minneapolis, MN	50
5290 - 5299	Southeast Michigan	Rochester, MI	
5300 - 5319	St. Paul Area	St. Paul, MN	
5320 - 5329	Lancaster County	Lincoln, NB	
5330 - 5339	Heartland	Omaha, NB	29
5340 - 5359	Outagamie County	Appleton, WI	
5360 - 5384	Dane County	Madison, WI	
5385 - 5399	Manitowoc County	Manitowoc, WI	
5400 - 5429	Greater Milwaukee	Milwaukee, WI	24
5430 - 5439	Lakeshore Counties	Racine, WI	
6000 - 6004	McLean County	Bloomington, IL	
6005 - 6014	Fulton County	Canton, IL	
6015 - 6024	Vermillion County	Danville, IL	
6025 - 6034	Macon County	Macon, IL	
6035 - 6044	Knox County	Galesburg, IL	
6045 - 6199	Mid America	Chicago, IL	75
6200 - 6209	Kankakee County	Kankakee, IL	
6210 - 6244	Quad Cities	Rock Island, IL	82
6245 - 6249	Schuyler County	Rushville, IL	
6250 - 6279	Central Illinois	Peoria, IL	
6280 - 6294	Sangamon County	Springfield, IL	25
6295 - 6304	Iroquois County	Watseka, IL	
6305 - 6334	Madison County	Anderson, IN	45
6335 - 6339	Lawrence County	Bedford, IN	

Numbers	Chapter	Location	Temp. #
6340 - 6354	Monroe County	Bloomington, IN	87
6355 - 6389	Evansville	Evansville, IN	
6390 - 6404	Allen Wells	Fort Wayne, IN	83
6405 - 6414	Northwest Indiana	Hammond, IN	
6415 - 6444	Indianapolis Area	Indianapolis, IN	27
6445 - 6449	Michigan City	Michigan City, IN	
6450 - 6454	Tippecanoe County	Lafayette, IN	
6455 - 6459	LaPorte County	LaPorte, IN	
6460 - 6464	Muncie Area	Muncie, IN	
6465 - 6499	St. Joseph County	South Bend, IN	32
6500 - 6504	Wayne County	Richmond, IN	
6505 - 6514	Wabash Valley	Terre Haute, IN	6
6515 - 6534	Lincoln Trail	Elizabethtown, KY	
6535 - 6539	Christian County	Hopkinsville, KY	
6540 - 6559	Bluegrass Area	Lexington, KY	
6560 - 6599	Louisville Area	Louisville KY	94
6600 - 6604	Madison, Garard, Lincoln Counties	Richmond, KY	
6605 - 6609	West Jasper County	Joplin, MO	
6610 - 6644	Grtr. Kansas City	Kansas City, MO	70
6645 - 6654	Nodaway County	Maryville, MO	
6655 - 6689	St. Louis - Bi State	St. Louis, MO	21
6690 - 6694	Greene County	Springfield, MO	54
6695 - 6729	Chattanooga-Hamilton	Chattanooga, TN	
6730 - 6734	Cleveland - Bradley Co.	Cleveland, TN	
6735 - 6744	Knox County	Knoxville, TN	
6745 - 6749	Blount County	Maryville, TN	
6750 - 6799	Memphis Area	Memphis, TN	3
6800 - 6814	Nashville Area	Nashville, TN	14
7000 - 7004	Washington County	Fayetteville, AR	
7005 - 7014	Craighead County	Jonesboro, AR	64
7015 - 7059	Pulaski County	Little Rock, AR	33
7060 - 7079	Sebastian County	Fort Smith, AR	68
7080 - 7094	Leavenworth County	Leavenworth, KS	56
7095 - 7099	Cannonball Trail	Pratt, KS	
7100 - 7114	Kansas Capitol Area	Topeka, KS	
7115 - 7129	Midway	Wichita, KS	
7130 - 7144	Louisiana - Capitol Area	Baton Rouge, LA	
7145 - 7164	Acadiana	Lafayette, LA	
7165 - 7214	Southeast Louisiana	New Orleans, LA	16
7215 - 7219	Calcasieu - Cameron Park	Lake Charles, LA	
7220 - 7229	Northwest Louisiana	Shreveport, LA	
7230 - 7234	Carter County	Ardmore, OK	
7235 - 7274	Washington County	Bartlesville, OK	
7275 - 7284	Comanche County	Lawton, OK	
7285 - 7289	Cleveland County	Norman, OK	
7290 - 7299	Oklahoma County	Oklahoma City, OK	77
7300 - 7304	Muskogee County	Muskogee, OK	
7305 - 7379	Tulsa Area	Tulsa, OK	19
7380 - 7384	Grtr. Amarillo	Amarillo, TX	
7385 - 7394	Brazoria County	Angleton, TX	
7395 - 7404	Centex	Austin, TX	
7405 - 7419	Beaumont	Beaumont, TX	41
7420 - 7429	Coastal Bend	Corpus Christi, TX	95
7430 - 7464	Dallas County	Dallas, TX	4
7465 - 7469	Grayson County	Dennison, TX	
7470 - 7474	Denton County	Denton, TX	
7475 - 7479	El Paso Area	El Paso, TX	
7480 - 7504	Tarrant County	Fort Worth, TX	
7505 - 7534	Galveston County	Galveston, TX	40
7535 - 7569	Greater Houston Area	Houston, TX	1
7570 - 7589	Lubbock County	Lubbock, TX	
7590 - 7599	Midland County	Midland, TX	
7600 - 7614	Orange County	Orange, TX	
7615 - 7619	Navarro County	Corsicana, TX	
7620 - 7624	Lamar County	Paris, TX	84
7625 - 7629	Hale County	Plainview, TX	
7630 - 7644	South Jefferson County	Port Arthur, TX	96
7645 - 7654	Concho Valley	San Angelo, TX	

Numbers	Chapter	Location	Temp. #
7655 - 7664	San Antonio Area	San Antonio, TX	
7665 - 7669	Texarkana Tri-State	Texarkana, TX	
7670 - 7679	Smith County	Tyler, TX	
7680 - 7684	Gold Coast	Victoria, TX	
7685 - 7694	Heart of Texas Area	Waco, TX	
7695 - 7714	Wichita County	Wichita Falls, TX	48
8000 - 8024	Pike's Peak	Colorado Springs, CO	
8025 - 8059	Mile High	Denver, CO	
8060 - 8074	Boise	Boise, ID	78
8075 - 8084	Bonneville County	Idaho Falls, ID	
8085 - 8099	Cascade County	Great Falls, MT	
8100 - 8114	Mid - Rio Grande	Albequerque, NM	
8115 - 8124	Dona Ana County	Las Cruces, NM	
8125 - 8139	Lane County	Eugene, OR	
8140 - 8149	Jackson County	Medrord, OR	
8150 - 8174	Oregon Trail	Portland, OR	47
8175 - 8184	Benton - Franklin County	Kennewick, WA	
8185 - 8194	Snohomish - Island Co.	Everett, WA	
8195 - 8204	Cowlitz	Longview, WA	
8205 - 8224	Seattle - King County	Seattle, WA	
8225 - 8244	Inland Empire	Spokane, WA	81
9000 - 9014	Tucson	Tucson, AZ	
9015 - 9039	Central AZ	Phoenix, AZ	
9040 - 9054	Alameda	Alameda, CA	
9055 - 9064	Kern	Bakersfield, CA	
9065 - 9079	Berkeley, W.Contra Costa	Richmond, CA	
9080 - 9089	Burbank	Burbank, CA	
9090 - 9099	Diablo	Concord, CA	
9100 - 9109	Fresno - Madera Counties	Fresno, CA	
9110 - 9119	King's County	Hanford, CA	
9120 - 9134	Glendale - Crescenta	Glendale, CA	
9135 - 9144	Antelope Valley	Lancaster, CA	
9145 - 9154	Greater Long Beach	Long Beach, CA	
9155 - 9299	Los Angeles	Los Angeles, CA	10
9300 - 9309	Napa	Napa, CA	
9310 - 9359	Oakland - S. Alameda Co.	Oakland, CA	69
9360 - 9369	Palo Alto Area	Palo Alto, CA	38
9370 - 9419	Pasadena	Pasadena, CA	74
9420 - 9429	Pomona Valley	Pomona, CA	
9430 - 9444	Riverside County	Riverside, CA	
9445 - 9459	Sacramento Area	Sacramento, CA	
9460 - 9484	San Bernardino Co.	San Bernardino, CA	49
9485 - 9499	San Diego/Imperial Co.	San Diego, CA	17
9500 - 9599	Golden Gate	San Francisco, CA	67
9600 - 9609	Marin County	San Rafael, CA	
9610 - 9619	E. San Gabriel Valley	W. Covina, CA	61
9620 - 9639	Santa Clara Valley	San Jose, CA	
9640 - 9699	Orange County	Santa Ana, CA	11
9700 - 9714	Santa Monica	Santa Monica	
9715 - 9724	Solano County	Vallejo, CA	
9725 - 9774	Ventura County	Ventura, CA	
9775 - 9789	Redwood Empire	Santa Rosa, CA	
9790 - 9804	Rio Hondo	Whittier, CA	
9805 - 9819	Hawaii State	Honolulu, HI	
9820 - 9824	Clark County	Las Vegas, NV	71
9825 - 9829	Sierra Nevada	Reno, NV	
9830 - 9834	Central Utah	Provo, UT	
9835 - 9839	Salt Lake Area	Salt Lake City, UT	

I will devote the remainder of this article to a discussion of the St. Louis Bi-State Chapter. The primary 330 watt base station is located in Clayton. Soon, extra receivers will be added at the County microwave site locations in North, South, Southwest, and West St. Louis County. Ninety watt base stations are located in St. Charles County, Ferguson, Webster Groves, and St. Clair County Illinois. The Clayton station has four channel capability with 47.460 Mhz. as F2. F3 and F4 are blank. A 330 watt base station is planned for Jefferson County. While changes are still being made to these numbers, here are the present local assignments:

6655 - 6660	Administrative Staff
6661 - 6668	Disaster Response Teams
6669	Damage Assessment Operations
6670	Damage Assessment Field Operations
6671	Damage Assessment Field Team
6672	Mass Care Operations
6673	Shelter Management
6674	Mass Care Supply
6675	Communications Field Operations
6676	Amateur Radio Operations
6677	Municipal Radio Operations
6678	Military Radio Operations
6679	Open
6680	Communications Operations
6681 - 6685	Disaster Response Vehicles
6686	Open
6687	St. Charles Unit
6688	St. Clair Unit
6689	Jefferson County Unit

Questions or comments appreciated - please send a S.A.S.E. to Mike Redman, Box 49, High Ridge, MO. 63049.

contact info wanted

This column has two purposes: to help members *contact* each other, and to help members obtain *information* directly from one another on various subjects related to 2-way communications monitoring. If you desire to converse, meet, or correspond with other members by telephone, letter, or cassette tape in a certain geographic area or with members who have similar listening interest, *this* is the perfect place for you to make known your interests. Remember — those who respond will do directly, so be sure to provide your phone number, the best time to be called, or your address. Write to:

Scott Mattson, 2820 Bridge Ave., Point Pleasant, NJ 08742

CONTACT WANTED: This member wants contact with Swedish related members (Swedish-American, etc.). Also, this member wants to exchange or buy cassette tape recordings of LAPD Rover, LAFD, CHP, NYPD, and NYFD
LARS NILSSON (SWED-003) Batholmsbacken 8, 2TR, S-12742 Skarholmen, Sweden (4/86)

INFO WANTED: This member would like information on Emergency Services frequencies for my July vacation to Kingston, Ontario.
SUSAN MOLL (MI-138) 2563 Daniels Rd., Rt 1, Sanford, MI 48657
(517) 687-2555 between 8 & 5 (4/86)

CONTACT WANTED: I would like to hear from members from all parts of the United States for exchange of confirmed law enforcement frequencies.
MICHAEL GOLDSTEIN (NY-335) 241 Woods Rd., North Babylon, NY 11703 (4/86)

CONTACT WANTED: This member would like to meet any member by phone, in person, cassette, letter, or whatever means possible to share scanner information in the San Joaquin Valley area of California. I'm interested in anything between 25 Mhz & 2 Ghz.
CHRISTOPHER D. SMITH (CA/SJ-010) P.O. Box 629, Manteca, CA 95336
(209) 823-4389 (4/86)

INFO WANTED: This member desires any frequency information on the varied services in business, special industrial, security, GMRS, mobile phone, utilities, telephone companies for the Baton Rouge, New Roads, and New Orleans areas of Louisiana. I am a new member and would appreciate the information.
ANTHONY JACK (LA-044) 609 Martin Dr., New Roads, LA 70760 (4/86)

WANTED: This member needs to locate an owner's manual and schematic diagram for a Realistic PRO-2B VHF tuneable monitor receiver (low & high band). I will reimburse provider for original or photocopy.
DAVID A. NUGENT (IN-002) 2542 Birk Dr., Jasper, IN 47546
(812) 482-2352 (4/86)

FCC TOPICS

George DuBois, Editor

FCC news and information of interest relating to two-way communications. Send comments and questions to:
George DuBois, 10048 NE Campaign, Portland, OR 97220

The FCC has issued a Memorandum Opinion and Order reaffirming their earlier decision to allow licensees in the Private Operational Fixed Microwave Service to lease their excess point-to-point capacity. This may be done on a for-profit basis, but only to entities eligible for licensing in the Operational Fixed service. Because of this, they are not considered to be common carriers, since service is not made available to the public at large. This is similar to SMRS systems at 800 mHz. Opposition had come from common carriers that offer similar point-to-point service and from state agencies that had wanted to regulate these carriers as common carriers.

The only recent proposal is one that would allow users of 800 mHz trunked Specialized Mobile Radio Systems to use their mobile (or input) frequencies for tone signalling. Such Fixed use is permitted now in other bands in the Public Safety and the Petroleum and Power Radio services. Uses include intrusion alarms, indication of fire or other condition and, in the case of the Petroleum and Power Radio services, indication of equipment failure at the licensees facilities. Such use is on a secondary, non-interference basis to mobile use and this limitation would apply to 800 mHz trunked systems also.

The FCC has amended its rules to require that all license applications for all the land mobile services must be submitted for approval by a frequency coordination committee. Until now the use of committees was voluntary in certain cases and some services did not even have coordinators. Some services had more than one. To eliminate the possible confusion and assure harmonious and consistent processing the Commission has designated a single coordinating committee for each service. These committees must provide their service on a "non-discriminatory basis" for a "reasonable and uniform fee". Their frequency recommendation is then forwarded to the Commission for processing and licensing. The Special Emergency Radio Service has never had a coordinator, mainly due to the diversity of persons eligible to licensing in the service. With this Order the Commission is designating the consortium of the International Municipal Signal Operators, the International Association of Fire Chiefs and NABER to act as the coordination committee for this service. The field study option, where the applicant selected his own frequency and submitted a study of the probable degree of interference to existing licensees, may no longer be used. In essence, though, an applicant could still just select his own frequency and submit it to the coordination committee, but they have no obligation to approve it. Besides new applications, major modifications such as changes in power, antenna height, location of base or control stations, etc., all require approval. Frequency coordination is still not required for the 72 - 76 mHz band, itinerant frequencies and certain 800 mHz channels.

The Commission has issued its Final Order in the matter of application of the regulations of the Council of Environmental Quality on Commissions licensees. The FCC has determined that the telecommunications industry generally does not raise significant environmental concerns. The only possible areas of concern are facilities located in environmentally sensitive areas (forests, etc.), those that require high-intensity white lighting in residential areas and those that expose the public to high levels of RF radiation. The Commission had earlier determined that TV and radio broadcast, satellite uplink and certain experimental stations are the only facilities of such concern. They had earlier determined that land mobile stations present no hazard due to their itinerant and intermittent operation and the usually inaccessible location of base station antennas.

The FCC has issued an Order preempting state regulation of common carriers that provide paging or two-way radio service. Many states, through their Public Utility Commissions and in other ways, have regulated common carriers, controlling their number, the rates they

charge, services provided, etc. This Order preempts any such regulation that limits the entry of new carriers, inhibits competition or in any other way impedes the operation of a federally licensed station. Local laws may still regulate intrastate rates and matters relating to antenna site zoning and safety and consumer matters.

The FCC has terminated a proposal that would have allowed the use of almost all of the Amateur Radio Service bands for Auxiliary operation. Auxiliary operation is the use for control links, fixed use and so forth, and is only allowed above 220.5 mHz (except for the 431/435 mHz experimental-satellite subbands). As the ARRL pointed out in opposition, the HF bands would be totally unsuitable and use of other bands would result in extensive interference, both from and to auxiliary stations. The two-meter band, for example, is heavily used in most areas. Also, the path lengths for most fixed links are generally quite short and the use of lower frequencies is not necessitated.

A recent proposal would simplify the licensing of common carrier Fixed stations. Generally, a one-step licensing procedure would be adopted, with the elimination of the requirement to demonstrate financial qualifications. Also, an increased burden would be placed on potential new applicants with regard to frequency coordination with existing licensees. Services affected would be Point-to-Point Microwave carriers, Digital Termination Systems and the Multipoint Distribution Service.

FEDERAL GOV'T and MILITARY

Send all Federal Government and Military frequencies (including those of military aircraft), radio system details, and related questions to:

Dennis Biagioli, 607 W. Pleasant Ave. Villa Park, IL 60181

Sensitive frequencies will not be published. Coast Guard material must go to the VHF Marine editor.

Hi! Here we are in the middle of another beautiful summer. I hope your radios have been as hot as a Chicago day in July! Now off to another month of reading about the research of others. Don't you feel guilty? Well, after you read this, why not send along something similar.

JOHN EVEREST (UT-016) sends the following unit identifiers used by the Naval Air Station Dallas (Texas) units on the Fire/Crash/Rescue frequency of 140.100. He reports that this frequency has been incorrectly in print elsewhere, but this is the correct frequency for the following. All numbers are prefixed by "Dallas".

Control	Base Control Tower
One	Base Commander
Two	Executive Officer
Three	Command Duty Officer
Four	Base Operations
Five	P-17 Crash Truck
Six	MB-1 Crash Truck
Seven	Air Force P-4 Crash Truck (Tx = Air Guard)
Eight	Fire Dept. Crash/Rescue Boat
11	Fire Chief's Pick-up
12	Ambulance
13	Twin Agent Truck
14	750 gals-per-minute Pumper
15	750 gals-per-minute Pumper
16	Medical (Base) Station
21	Vought Aircraft Co. Crash Truck
23	Vought Aircraft Co. Security/Fire
28	Arresting Gear Truck
29	Operations Pick-up
30	Base Fire Dept. Dispatch
31	Fire Dept. Chief
32	Asst. Fire Chief
33	Fire Dept. Alert Shack

50 Operations Pick-up
53 Air Force Pick-up (TX = Air Guard F.D.)
66 Fire Inspector's Pick-up

Navy Control Tower (Aircraft Operations) on 126.200.

John reports a usual of at least two or three emergency incidents weekly due to bird strikes to fire warning lights on the F-4 Phantoms and TA-4 Trainers.

CARL GEROSA (NY-117) sends along this nice list from the New York City area.

32.65	N	Hospital Control, Bkln.
34.79	I	Nat'l Pk. Svc. Ellis Island Protection Base KID704
36.90	AR	Nat'l Guard, Bethpage KFF3
38.55	AR	West Point Base "258"
38.70	AR	West Point MP Base AAB250
38.83	AR	"Waco" Security Base, Ft. Wadsworth, L.I. (Reserves)
38.85	AR	West Point Fire Dept. AAB257
		Ft. Dix MP Base AAB350
38.91	AR	Ft. Dix MP Base AAB350
38.95	AR	West Point Maintenance Base 257/"Castle"
49.70	AR	West Point
140.075	N	Intelligence NFC820 (w/ phone patch)
142.235	AR	"Waco", Security Base
143.150	AR	"Waco", Security Base
143.450	AF	MARS Danbury/Norwalk
143.460	AF	MARS McGuire AFB 1S1 - Net Region 2 (AFA/AFB Units)
143.990	AR	MARS New York, AAR2 units
		New Jersey alternate channel
148.150	AF	Civil Air Patrol
		New York "Empire" base
		New Jersey "Zigzag" Base
		New York "Tomcat"
148.275	N	Brooklyn Security & Harbor Operations
148.410	N	MARS Lakehurst 1K14B Net Region 1 & 1K8B net
		Dobbs Ferry repeater (NNN0 units)
148.950	N	MARS 1G11B Net - Dobbs Ferry repeater (NNN0 units)
149.175	AF	Westchester Co. Arpt. Fire & Crash
		"Cocoa" units (Air Guard)
149.275	AF	Westchester Co. Arpt. (Air Guard)
149.300	AF	Westchester Co. Arpt. Medical Net (Air Guard)
149.325	AF	Westchester Co. Arpt. Security (Air Guard)
150.000	N	Navigational satellite telemetry
150.700	AR	West Point Hospital Medics/Pagers
162.300	FAA	New York City
162.350	FAA	Telemetry, JFK Int'l
163.000	AR	Engineers, F-4
163.4125	AR	Engineers, F-3
163.5875	AF	Air Guard, Suffolk
164.1750	VA	Northport Med. Center, KEE736
164.2250	DOE	Brookhaven Nat'l Lab, Upton,
		Security(KGB512, WAU453)
164.3250	DOE	Brookhaven, Scientific Comms. (KRF225, WDV384)
164.7000	VA	New York, Hospital Paging
164.7500	DOE	Brookhaven, (KFW688)
164.9375	VA	Brooklyn Hospital Security "Central" (KJN946)
165.0625	AR	West Point, "Signal" Base
165.2625	CG	Governor's Island, NYC, Maintenance
165.6125	S	Paging
165.6625	FAA	F-2, Security/Telemetry, Flushing (LaGuardia)
165.7125	FAA	Jamaica (JFK Int'l)
165.7625	FAA	Jamaica (JFK Int'l)
166.1000	S	New York (United Nations)
166.1750	FAA	Jamaica, Islip, Garden City (w/ phone patch)
166.3750	USPS	New York, Maintenance (KEG308)
166.6750	VA	Bronx, Security (KLM539)
167.1250	USPS	Jersey City
167.8750	DOE	Brookhaven, Maint. Control (KEL220)

170.400 NASA Sands Point, Satellite Telemetry

FRED (NJ-220) adds more from New York state with the following from the Buffalo area.

163.4125 AR Corps of Engineers
165.0875 AR Engineers, Buffalo & Mt. Morris Dam
407.450 AR Engineers, Buffalo (hand helds only)
410.325 USPS Main Post Office, Maintenance (input ??)
415.200 GSA Federal Protection Service (413.9500 input)
417.200 GSA Federal Protection Service, primary (419.175 input)
418.300 USPS Main Post Office, Security (416.775 input)

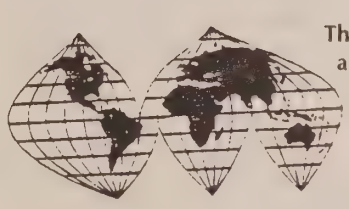
NIAGARA FALLS AIR FORCE BASE

149.150 Fuel Maintenance
150.025 Security
150.150 Base Operations, repeater
164.025 Simulcast of Niagara Falls airport ground freq., 121.700
165.1375 Maintenance
165.1875 "Repair Facility"
173.5875 Fire

Our thanks to both members for their fine contributions. Next month we will begin the results of the call for contributions of specific agencies as per the membership survey. So, until then...

73-
Jerry

INTERNATIONAL



This column is for reporting two-way communications frequencies above 30 MHz, radio system details, monitoring experiences, and any other information relating to monitoring in countries other than the United States and Canada. Send to:

Rickey Stein, 456 Barrymore Place, North Brunswick, NJ 08902

For some time now, I have been most fortunate to be able to accumulate a large amount of very serious frequency information for the Republic of Ireland. Recently I was advised that some of the information may now be dated since there is a considerable amount of frequency shifting going on, especially in the area of police communications. However, I will present all of the information that I have over the next several months and will also provide those changes in frequencies as they are sent to me. One of the things which would make the presentation of these new frequencies faster would be some help in getting text files now recorded on a 3 1/2 inch disc (MS-DOS format) copied onto a 5 1/4 inch disc. If anyone has the capability to make these changes and is willing to do so, please drop me a note.

REPUBLIC OF IRELAND

Introduction

We will begin to present here, a listing of all stations in the frequency ranges 68-88, 144-174 and 430-512 MHz. known to be audible in the Dublin Metropolitan Area.

Frequencies between 30-50 MHz are not allocated in Ireland, but a number of illegal 'cordless telephones' may be heard between 49-50

MHz. These are listed where known.

The frequencies 74.8-75.2 and 149.9-150.05 MHz are allocated to air navagation aids, the former being a guard band for navaids operating on 75MHz.

All frequencies between 118-136 MHz (Air Band) used by aircraft operating to or from Irish air space are listed. In the range 156.025-157.425 (Marine Band) all stations (Irish) are listed together with British stations which may work ships in the Irish Sea.

All frequencies have not been checked. This is especially true in the case of the mobile frequencies. These, in many cases, have been deduced from what is believed to be the band plan.

In the case of stations between 68-88 MHz (Low Band), the mobiles appear to occupy the range of 72-78 MHz with the corresponding bases between 82-88 MHz. In the case of stations between 156-174 MHz. (High Band), base stations are between 162.0 and 169.9 MHz. and mobiles between 157-160 and 170-174 MHz. In the range 450-470 MHz. (UHF Band), base stations are generally in the 450-461 MHz. range with the corresponding mobile channels in the 461-468 MHz. range.

It is necessary to point out that the above paragraph, (together with the details of the band plan set out in Table 1a), is unofficial and has been discovered by experimentation and so might contain errors.

In the Low and High Band VHF ranges, channels are allocated at 12.5kHz. spacing. Observed frequencies will therefore normally end in the three digits shown below. If other digits are observed, this is usually (but not always) due to off frequency operation.

000 125 250 375 500 625 750 875

In the UHF range, channel separation is 25kHz. or 50kHz.

Due to the limited number of channels available, most channels are allocated on a shared basis. A number of channels appear to be allocated to users who operate a 'common carrier' service. On these channels, a number of different subscribers call their associated units by SELCAL. These are i-dicated in the list by "CC".

A number of companies provide 'phone patch' facilities between mobile units and the PTT network. Mobile units cannot directly dial telephone numbers, but must request them from an operator. These circuits are shown as "MP" (mobile phone).

Official PTT 'telephone circuits' are indicated as "TC".

Cordless telephones (indicated as "CP") are private unlicensed radio circuits carrying telephone conversations. Telephones on the PTT service may be directly dialled by these units. The range of many cordless phones is measured in feet but more modern examples may be heard over 10 miles from the base unit.

Wide area paging services are indicated as "PA".

Channels carrying telemetry are indicated as "TM".

Stations using amplitude modulation are shown as "AM".

Dublin County

Fire Departments:

With the exception of the Dun Laoghaire County Borough, fire and emergency (accident) ambulance services in Dublin County are supplied by the Dublin Fire Brigade. Headquarters and central dispatch are at Tara Street (station 10) with stations at Donnybrook (1), Dolphin's Barn (2), Buckingham Street (3), North Strand (4), Finglas (5), Kilbarrack (6), Tallagh (7), and Rathfarnham (8).

Units use a two or three digit callsign, the first one or two digits being the station number and the final digit indicating the type of unit.

Unit types: 1 Fire appliance 2 Ladder unit 3 Foam 4 Ambulance
5 Rescue tender 6 Ladder unit 7 Ladder unit

Frequencies:
460.7000/467.2000 80.0500/? Central dispatch to stations and units. UHF frequencies are FM (repeater), VHF is AM.

Eastern Health Board:

Supplies general ambulance services in Dublin County and all ambulance services in Kilda-e and Wicklow counties.

Frequencies:

Location	c/s	Base/Vehicle	Base/Vehicle
Dublin	Health		84.6000/74.3750
South Dublin	Colm	165.8750/170.6750	84.6250/74.4000
Wicklow	Barney		84.7250/74.5000
Kildare	Kinnom	460.5250/467.0250	

Private Ambulance Services:

Order of Malta Ambulance Corps, Dublin
74.6250 AM single channel

Paramedic Ambulance and Rescue Service, Dublin
163.4875/158.9875 Base/vehicle

Unidentified ambulance service
168.1750/172.6750 Base/vehicle

Local Government:

Dublin County Council:
Roads Department 165.7876/170.5875 talkthru both channels

Sanitary department:(Sewers, Drainage, Water Supply)
Point-to-point 165.9000/170.7000 468.1875/454.1850

Dublin Corporation:	AM	Repeater
	82.3000/72.3000	453.7250/460.2250

Broadcasting:

Radio Telefis Eireann:

Outside broadcast	168.7875/173.5875 168.8125/173.6125 168.8375/173.6375 166.9000/173.7000	
Point-to-point	168.8250/173.6250	telephone circuit to Cooley transmitter site.
Unknown use:	168.7500/173.5500	Identifies as 'Dublin 2 Links'

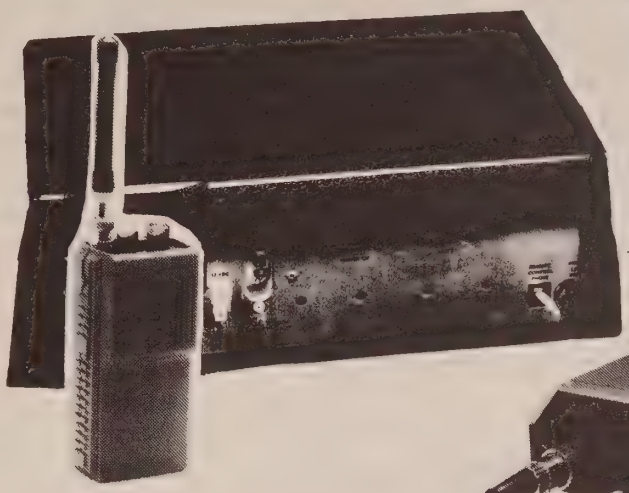
••••

This series will be continued next month.

Again, let me ask for some help. I have been trying to reset some of the setup parameters for Wordstar using Winstall-primarily to get the left margin set back from 8 to 0. I have not been successful. Any suggestions?

Until next month.... ירון-פלס

F.M. TWO-WAY RADIO



TOTAL COMMUNICATIONS

5 Watt VHF hand helds from
$250, UHF from $300.
30 Watt Mobiles from $400.
Repeaters from $1300.
Antennas and Accessories.
VISA/Mastercard Accepted.

OUR 14TH YEAR!

COMMUNICATIONS CENTER

915 N. EUCLID, ANAHEIM, CA. 92801 (714) 635-1033

MONITORING & THE LAW

Send all articles on, references to, and copies of monitoring laws, as well as questions concerning the legal aspects of monitor radio listening to:
C. Homer (Hank) Rose III (NJ-206), 2 S. Gold Drive, Robbinsville, NJ 08691

COLUMN EDITOR WANTED

NOTE: Below is Hank's final contribution as editor of this column. For more information on filling this vacancy, please see the announcement in this issue's Captain's Desk.

With vacation time fast approaching for the majority of us, a look at mobile scanner laws applicable to each state might well be in order. I have taken the liberty of enclosing a list of state-by-state laws regarding the use of scanners. A word of caution: many municipalities and other political subdivisions may have specific laws pertaining to the use of scanners within their boundaries. Obviously, it would be impossible to include the myriad of these laws in a column such as this, but there are a few guidelines which generally cover most usage.

I have found that licensed amateur radio operators and those individuals having a valid reason for having such equipment are generally exempt from most regulations. Volunteer firemen, rescue squad members, law enforcement officers, etc. would generally fall into the above category. Another example would be certain members of the news media. Some cities require special permits which are obtained through the local police department or sheriff's office. For those of you who would choose to "chance it", I would suggest the following: Most law enforcement officers become

excited with scanners in motor vehicles if they feel that the radio is being used to avoid detection while in the commission of a crime (this includes traffic violations as well). Use of scanners for the furtherance of personal gain, such as wreckers chasing accidents is also frowned upon highly.

A little common sense goes a long way here - I can not openly endorse anybody's violating the law, but all of you ought to be able to read between the lines here. Obey the law, don't show up where you are not wanted and problems, if any, should be minimal. With all the confusion surrounding the current proposed federal legislation a lot of places have abandoned enforcement of scanner laws entirely and have adopted a "wait and see" attitude. Some areas have had their existing laws challenged in court and found to be unconstitutional. This recently happened in the City of Philadelphia. If it will serve to help settle some nerves, I have had scanners in my cars for a long, long time (albeit I do have the necessary paperwork) and have yet to have a serious problem. Herewith is the list and I thank MONITOR AMERICA for producing this excellent summary.

State Laws

Alabama: None
Alaska: None
Arizona: None
Arkansas: Use of descramblers to monitor fire or police prohibited.
California: Informing suspect of police radio traffic about suspect prohibited.
Colorado: None
Connecticut: None
District of Columbia: None
Delaware: None
Florida: Mobile law enforcement monitoring prohibited if receiver is 'permanently installed': i.e., using outside antenna & vehicle power supply.
Georgia: None
Hawaii: None
Idaho: None
Illinois: None
Indiana: Mobile & portable law enforcement monitoring prohibited without permit; exceptions include news media, amateurs, emergency vehicles.
Iowa: None
Kansas: None
Kentucky: Mobile law enforcement monitoring prohibited; exceptions include news media, tow trucks, emergency personnel.
Louisiana: None
Maine: None
Maryland: None
Massachusetts: None
Michigan: Mobile law enforcement monitoring prohibited without permit; exceptions include police & amateurs.
Minnesota: Mobile law enforcement monitoring prohibited without permit; exceptions include police personnel.
Mississippi: None
Missouri: None
Montana: None
Nebraska: Possession of police-band receivers prohibited for purposes of personal gain or evading arrest
Nevada: None
New Hampshire: None
New Jersey: Mobile public safety monitoring prohibited without permit; police excepted
New Mexico: None
New York: Mobile law enforcement monitoring prohibited without permit
North Carolina: None
North Dakota: Use of receiver in motor vehicle or place of business or by convicted felons prohibited without permit
Ohio: None
Oklahoma: Use of mobile radio for illegal purposes or in commission of crime prohibited
Oregon: None
Pennsylvania: None
Rhode Island: None
South Carolina: None
South Dakota: Use of receiver in motor vehicle of place of business or by convicted felons prohibited without permit
Tennessee: None
Texas: None
Utah: None
Vermont: Mobile monitoring prohibited for purposes of furthering a crime
Virginia: None
Washington: None
West Virginia: Monitoring to violate law prohibited
Wisconsin: None
Wyoming: None

MARKETPLACE

Gary M. Darcy, Editor

Members may advertise, free of charge, items wanted, items for sale, items for trade that are associated with the hobby of monitor/utility radio listening. No dealer ads will be accepted for this column. RCMA assumes no responsibility for the outcome of any transactions between members resulting from ads printed in this column. Send to:

RCMA MARKETPLACE, c/o Gary M. Darcy, P.O. Box 1329, Palmdale, CA 93550

Please be sure to include your membership number.

All Marketplace ads will be accepted ONLY on special forms available from this column's editor. Send a self-addressed STAMPED envelope (business size) to the address above to receive a supply of forms. Foreign members do not need to include postage on envelopes they send.

NO COLUMN THIS MONTH

NEWS MEDIA COMMUNICATIONS

This column is for reporting frequency and radio systems information of news media. Send related reports and questions on newspaper, radio, television, magazine, film production companies, etc. to:

Allen G. Henney, MD-069, 6912 Prince Georges Ave, Takoma Park, MD 20912

THIS MONTH WE HAVE 2 VERY NICE CONTRIBUTIONS FOR THE SOUTHERN CALIFORNIA AREA. THE FIRST, COMES FROM RICK Di FIORE (CA-LA-544) OF LOS ANGELES. I HOPE WE CAN SQUEEZE IT ALL IN THIS MONTH, IF WE CAN'T, LOOK FOR THE CONTINUATION NEXT MONTH. RICK SAYS THAT THIS LISTING COMES FROM HIS NEW SCANNER BOOK WHICH SHOULD BE COMING OUT SOMETIME THIS SUMMER. IT LOOKS LIKE RICK'S BOOK WILL BE VERY USEFUL TO THOSE WHO LIVE IN THE SOUTHERN CALIFORNIA AREA. I HOPE RICK WILL SEND US MORE INFORMATION AS TO WHERE WE CAN PURCHASE A COPY OF HIS GREAT SCANNER BOOK. RICK NOTES THAT THE FREQUENCIES ARE UNDER A YEAR OLD. THEY SHOULD BE OF GREAT HELP TO THOSE OF YOU LIVING IN THE AREA, ESPECIALLY IF YOU WANT TO KNOW JUST WHICH FREQUENCIES A STATION IS LICENSED ON. IT ALSO IS USEFUL WHEN TRYING TO FIND THE NAME ON THE LICENSE OF A USER, MANY STATIONS ARE LICENSED UNDER VARIOUS NAMES WHICH OFTEN MAKES IT HARD TO LOCATE THE OTHER FREQUENCIES LICENSES TO THE STATION.

NEWS MEDIA FREQUENCIES

For All of Southern California By: Rick-CALA544/N6KIB
Southern California Communications Services

ABC-TV American Broadcasting Company Inc. KABC-TV 7 KLOS-FM 95.5
Los Angeles: KQA847 450.3125 - 455.3125 WHE734 450.010 KA74769 450.150 - 455.3125 WHE923 26.390 KFJ945 450.1625
Anaheim: KQA847 450.3125 - 455.4125
Riverside: KQA847 450.3125 - 455.4125
San Bernardino: KQA853 450.3125
Rancho Palos Verdes: WSM742 450.050
Big Bear: KQA851 450.1375 - 455.1375
Orange: WHE972 26.290
Malibu: KFA632 450.1625 - 455.1625 KQA845 455.150
Mt. Lukens: KQA867 450.3125 KFK830 450.1625

Barstow Broadcasting Corporation KPRD-AM 1230 KZNS-FM 94.3
Barstow: KHN884 161.730

Bayliss Broadcasting Company KSMA-AM 1240 KSNI-FM 102.5
Santa Maria: WHY656 948.000

Board of Trustees Coast Community College District KOCE-TV 50
Huntington Beach: KVW737 455.4875

Best Communications Inc. KNTF-FM 93.5
Ontario: KB55890 455.800

BHA Enterprises Inc. KAVR-AM 960 KAPV-FM 102.3
Apple Valley: KMM799 161.760

Blythe Radio Inc. KJMB-AM 1450 KJMB-FM 100.3
Blythe: WAQ334 947.000

Board of Trustees San Diego State University KPBS-TV 15
San Diego: KLH809 450.1125

Bonneville International Corporation KBIG-FM 104.3
Los Angeles: KMH735 26.090 - 26.130 - 26.740

Brandow Communications Inc. KERN-AM 1410
Bakersfield:

Buck Owens Production Company Inc. KUZZ-AM 970 KKXX-FM 107.9
Bakersfield: KA74830 161.640 KOS427 450.650

Buckley Communications Inc. KGIL-AM 1260 KGIL-FM 94.3
San Fernando: KUZ496 455.050 - 455.800

Burning Sands Broadcasting Corporation KRCQ-AM 1400

CNN - Cable News Network
Los Angeles: KPG344 450.150 - 450.350 - 450.550 - 455.350

Cabrillo Communications Inc. KKUS-FM 98.1
San Luis Obispo: KPE957 450.010

California Coast Broadcasters Inc. KSBQ-AM 1480
Santa Maira:

Cal-Mex Broadcasters Inc. KQVO-FM 97.7
Calexico: WHY611 948.000

California Polytechnic State University KCPR-FM 91.3
San Luis Obispo: WHE859 450.990

California State University Long Beach KLON-FM 88.1
Long Beach: WBB477 950.000

Calnevar Broadcasting Company KWAZ-FM 97.9
Needles:

Capital Cities Communications Inc. KLAC-AM 570 KZLA-FM 93.9
Los Angeles: KB55267 166.250 KPE761 455.980

CBS Inc. KCBS-TV 2 KKHR-FM 93.1
Los Angeles: KEH377 455.6125 - 450.800 KOS415 161.670 KQV755 450.0875 KQV755 450.2875
Palos Verdes: KQV755 450.1125 - 450.1875 - 450.3125 - 450.3875 - 450.4125 - 450.5125 450.6125 KEH377 450.800
Mt. Wilson: KQV755 450.1875

Claridge Broadcasting Corporations KCMJ-FM 92.7
Indio: KPF930 450.980

Classic Broadcasting Inc. KEZN-FM 103.1
Palm Desert: KPF249 450.010

Comedy Broadcasting Company KMDY-AM 850
Thousand Oaks:

Commonwealth Broadcasting Company KMEN-AM 1290 KGGI-FM 99.1
Riverside:
San Bernardino:

Community Television of Southern California KCET-TV 28
Los Angeles: KV8040 152.930 - 153.230

Conejo Broadcasters Inc.
Thousand Oaks: WYR287 161.640

Cornado Four-County Broadcasting KNSE-AM 1510
Ontairo: KHY354 161.740

Cosmic Communications Inc.
Los Angeles: KSZ63 944.500

D.L. Developments KIOT-AM 1310
Barstow:

Donrey Inc. KOCM-FM
Newport Beach: WHS579 947.875 - 948.125

E N C O U R A G E A F R I E N D
T O J O I N R C M A

The centerfold this month is a
Membership Application Form
for you to pass along

RADIO COMMUNICATIONS MONITORING ASSOCIATION, INC.

POST OFFICE BOX 542
SILVERADO, CALIFORNIA 92676

Subscription Rate/Membership Fee

U.S. Residents.....$16.50
Canada & Mexico.....$18.50
Europe.....$20.00
So. Pacific & Asia.....$21.50

These dues are payable in U.S. funds & are subject to change.

Where to Send:

Please make check or money order payable to RCMA, Inc. Do not send cash. Send to:

RCMA General Manager
P.O. Box 542
Silverado, CA 92676

1. NAME_____

ADDRESS_____

_____

DATE OF APPLICATION_____

PERMISSION TO PUBLISH LAST NAME AND ADDRESS IN RCMA NEWSLETTER'S NEW MEMBERS LIST:

__YES, PERMISSION GRANTED

__NO, PERMISSION WITHELD

2. Year you began hobby of monitor radio listening: 19____

3. Is your monitoring ___all mobile ---all work based ---all home based ___mostly mobile ___mostly home based ___ mostly work based ___about half & half (Check one of these)

4. What communications publications do you read on a regular basis? _____

_____

5. What receivers do you use? _____

6. What outdoor base station antennas, if any, do you use for monitoring? _____

_____

7. Do you have any additional radio hobbies such as: __CB __Shortwave listening __BCB DXing __TV & FM (88 - 108 MHz) __Amateur Radio (give call & class)_____

__Other_____

9. What is your occupation? _____

10. Above 30 MHz, to what do you listen most? (Check one or more of the following and number 1,2,3, etc., in order of interest.

__FIRE __FORESTRY __SHERIFF __POLICE __HIGHWAY PATROL __STATE POLICE __U.S. GOVT. __TRAINS __MOBILE 'PHONES __LOCAL GOVTS __ROAD DEPTS __UTILITY DEPTS __AMBULANCE __PARAMEDICS __NEWS MEDIA __BUSINESS __PRIVATE PATROL OR SECURITY __VHF MARINE __VHF AIRCRAFT (118 - 136 MHz) __SATELLITES __ UHF AIRCRAFT (225 - 400 MHz) __800 MHz SERVICES __AMATEUR COMMUNICATIONS __OTHER:_____

11. To what depts, agencies, or services do you listen most? _____

12. Do you have a personal computer? __no __yes: make & model_____

13. What single specific radio use interests you most?_____

14. Are you willing to contribute listener reports & support the club's need for information?
__yes __no __sometimes

15. Where & when did you first hear about RCMA? _____

Eagle Broadcasting Company Inc. KQXR-FM 94.1
Bakersfield: KIK84 948.000

Edward G. Atsinger III KDAR-FM 98.3
Oxnard: KNL879 161.630

El Camino Broadcasting Corporation KWVE-FM 107.9
San Clemente:

Eleven-Fifty Corporation KIIS-AM 1150 KIIS-FM 102.7 KSDO-FM 102.9
Los Angeles: KPE766 161.6875 KPF953 450.950
San Diego: KPE766 161.6875

Emmis Broadcasting Corporation
Los Angeles: WLD680 945.375 - 945.625

Flagship Broadcasting Inc. KNAC-FM 105.5
Long Beach:

Forrest Radio Company Inc. KOGO-AM 1590 KBBY-FM 95.1
Ventura: KEH345 152.870 - 153.110 - 153.170

Frederick R. Cote KGUD-AM 1490
Banning: WZZ795 455.990

Golden Desert Broadcasting Company KDOL-AM 1340 KDOL-FM 97.7
Mojave: KFH734 161.700

Golden Orange Broadcasting Company Inc. KDOC-TV 56
Anaheim: KPE717 450.1125 - 455.1125

Golden West Broadcasters KTLA-TV 5 KMPC-AM 710
Los Angeles: KMH853 450.750 - 455.750 KB55232 450.250 - 455.250 - 450.350

Greater Los Angeles Radio Inc. KHTZ-FM 97.1 KRLA-AM 1110
Los Angeles: WCX523 946.875 - 947.125

Harriscope Broadcasting Corporation KBAK-TV 29 KWHY-TV 22
Bakersfield: KOS377 161.640 - 161.670 - 161.730
Los Angeles: KPF261 450.1125 - 445.1125 KOS377 161.700

HBI Acquisition Corporation KIHS-TV 46
Ontairo: KPE749 450.020 KPF234 450.1125 - 455.1125

High Desert Communications KQYN-FM 95.7
29-Palms: KHI564 161.640

Inter City Broadcasting Corporation of Los Angeles KGFJ-AM 1230
Los Angeles: KMM807 161.640

International Church/Four Square Gospel KHIS-AM 800 KHIS-FM 96.5 KFSG-FM 96.3
Los Angeles: KAG327 161.730 BLP0053 450.000 - 455.000

Jefferson-Pilot Broadcasting Company KSON-AM 1240 KSON-FM 97.3
San Diego: KFG824 166.250

K-LOVE Radio Broadcasting Inc. KTNQ-AM 1200 KLVE-FM 107.5
Los Angeles: KRW675 949.875 - 950.125

KCOP Television Inc. KCOP-TV 13
Los Angeles: WZZ706 455.3125

KCST Television Inc. KCST-TV 39
San Diego: KEH327 450.4625 - 455.4625

KEZY Radio Inc. KEZY-AM 1190 KEZY-FM 95.9
Anaheim: KRF995 455.5125 WHD92 948.875

KFAC Inc. KFAC-AM 1330 KFAC-FM 92.3
Los Angeles: WHY647 943.000 KVG27 943.375 KMN44 940.500

KFI Inc. KFI-AM 640 KOST-FM 103.5
Los Angeles: KOS357 450.010 WHB276 951.625

KFXM Broadcasting Company KFXM-AM 590 KDUO-FM 97.5
San Bernardino:

KGB Incorporated KPQP-AM 1360 KGB-FM 101.5
San Diego: KGM554 450.925 - 455.925

Kiertron Inc. KBRT-AM 740
Avalon: KA74859 455.350

KJOI Inc. KJOI-FM 98.7
Los Angeles: WHY654 950.500

Klein - Ray Broadcasting KPRO-AM 1440
Riverside:

KLOA Radio Inc. KLOA-AM 1240 KFIO-FM 104.9
Ridgecrest: KJI336 26.470

KMAP Inc. KWAC-AM 1490
Bakersfield:

KMAX Inc. KMAX-FM 107.1
Pasadena:

KMJC Inc. KMJC-AM 910
El Cajon:

Kotcom Broadcasting Investment Company KDIG-AM 1240 KBON-FM 103.9
Lake Arrowhead: KEH171 161.700

KPSI Radio Corporation KPSI-AM 1450 KPSI-FM 100.9
Palm Springs: KPG755 450.925 WHY439 948.375

KRLA Inc. KRLA-AM 1110
Pasadena: WZZ771 450.450 - 455.2875 - 455.6125

KSCI Television Inc. KSCI-TV 18
San Bernardino: KVO303 450.4375

KTYD Inc. KYTD-FM 99.9
Santa Barbara: KB55026 455.800

KHUL Broadcasting Inc. KHUL-AM 1440
Santa Maria: WSM760 450.980 KUY933 161.700 WSM761 450.010

KVEN Broadcasting Corporation KVEN-AM 1450 KHAY-FM 100.7
Ventura: KTQ309 161.730

Loma Linda University Broadcasting Company KSGN-FM 89.7
Riverside: KPE561 450.980

Lotus Communications Corporation KWKW-AM 1300 KFSD-FM 94.1
San Diego:

Lotus Oxnard Corporation KOXR-AM 910
Oxnard:

Loyola Marymount University KXLU-FM 88.9
Los Angeles:

Major Market Station Inc. KWRM-AM 1370 KQLH-FM 95.1
Corona: WHE557 161.640

McGraw Hill Broadcasting Company KGTV-TV 10 KERO-TV
San Diego: KPE947 450.3625 - 455.3625
Bakersfield:

Metromedia Inc. KTTV-TV 11 KMET-FM 94.7
Los Angeles: KPF946 450.950 KFD403 450.5875 WFW718 949.000

Midwest Television Inc. KFMB-TV KFMB-AM 760 KFMB-FM 100.7
San Diego: KU5924 450.2625 - 455.2625 BLP0054 161.625 KA95332 161.670

Mountain Broadcasting Company Inc. KBBV-AM 1050 KTOT-FM 101.7
Big Bear Lake: KXF972 450.450 - 450.550 - 450.650 - 450.750

NBC Inc. KNBC-TV 4
Los Angeles: KPE973 450.1875 KFH916 450.3875
Burbank: KEH396 455.2875 - 455.3875
Palm Desert: KPE581 450.3875 KPE582 450.5375 KRI908 450.5625
Pasadena: KPE688 450.990 - 455.990
Santa Ana: KES328 153.050 - 153.110 - 153.170 - 153.350 - 161.640 - 161.670
161.730 - 161.760

News Press Publishing Company KTMS-AM 1250 KKOO-FM 99.5
Santa Barbara: KTO276 161.640 - 161.730 - 161.760 WLD710 949.000 WLD582 951.000

North County Communications KMLO-AM 1000 KAVO-FM 107.1
Fallbrook: KJW694 161.670

Orange Broadcasting Corporation KIKF-FM 93.3
Garden Grove:

Outlet Communications Inc. KIQQ-FM 100.3
Los Angeles:

Pacific and Southern Company Inc. KSDO-AM 1130
San Diego: KTG981 161.730

Pacific Broadcasting Company Inc. KDB-AM 1490 KDB-FM 93.7
Santa Barbara: WYR208 161.670

Pacific Coast Broadcasting Corporation KSYV-FM 97.7
Solvang: KG7612 161.700

Pacific Media Corporation KECY-TV
El Centro:

Pacifica Foundation KPFK-FM 90.7
Los Angeles: WHE737 450.650 - 455.650 WLE768 948.500

Palomar Broadcasters Corporation KOWN-AM 1450 KOWN-FM 92.1
Escondido; KH6891 153.050 - 161.730

Pasadena Area Community College KPCC-FM 89.3
Pasadena: WHB802 947.500

Pennino Music Company Inc. KNOB-FM 97.9
Long Beach:

Quetzal Bilingual Communications KSDG-AM 1040 KMPO-FM 88.7
San Diego: KLH901 153.050
Modesto: KLH901 153.050

Riverside County Broadcaster KMAY-AM 1570 KWDJ-FM 92.7
Riverside: WBJ979 947.000

RKO General Inc. KHJ-TV 9 KHJ-AM 930 KRTH-FM 101.1
Los Angeles: KFR951 161.670 - 161.700 KPE532 450.2125 - 455.2125

Robert Burdette Investments Inc. KGRB-AM 900 KBOB-FM 98.3
West Covina: KHE617 161.640

Rollins Broadcasting Inc. KDAY-AM 1580
Santa Monica: KJG910 161.670 - 161.730

RTC Broadcasting Corporation KPLM-FM 106.1
Palm Springs: KBN375 153.100

San Bernardino Broadcasting Corporation KVCR-TV KVCR-FM 91.9
San Bernardino: KVD494 450.850

San Diego State University KPBS-FM 89.5
San Diego: WBE756 951.500 KA88776 161.670 - 161.760 KUN650 450.1125

Santa Barbara Broadcasters Inc. KNEZ-AM 960
Lompoc: KMM811 170.150

Santa Monica Broadcaster Inc. KSRF-FM 103.1
Santa Monica: WGR823 949.000

Santa Monica Community College District KCRW-FM 89.9
Santa Monica: WZB696 450.1125 - 450.650 WLD949 945.875 - 946.125

SBI - KOGO Inc. KLZZ-AM 600 KLZZ-FM 106.5 KYMS-FM 106.3
San Diego: WHE955 455.2125
Santa Ana: KML441 455.2125

Sidney King KCIN-AM 1590
Victorville:

Southern California Broadcasting Company KIEV-AM 870
Glendale: KKH907 153.030 - 153.050

Space/Time Broadcasting Company KZIQ-AM 1360 KZIQ-FM 92.7
Ridgecrest:

Spanish Broadcasting System of California KSKQ-AM 1540
Los Angeles:

Spanish International Communications Corporation KMEX-TV 34
Los Angeles: KPF893 450.1125 - 455.1125

Stauffer Communications Inc. KCOY-TV
Santa Maria: KCH231 450.1125

Sun Beam Radio Partners KTRO-AM 1520 KCAQ-FM 104.7
Port Hueneme: KHU221 161.700

Taxi Productions Inc. KJLH-FM 102.3
Compton: KDU28 947.000

Channel Islands Radio Company Inc.
Ventura: WYR250 161.640 - 161.670

Thousand Oaks Radio Corporation KNJO-FM 92.7
Thousand Oaks:

Tourtelot Broadcasting Company KKAM-AM 920 KDES-FM 104.7
Palm Springs: KEH392 450.4875 - 455.4875 KD4614 455.850

Trans-America Broadcasting Corporation KTYM-AM 1460
Inglewood: KFX942 450.550

University of Southern California KUSC-FM 91.5
Los Angeles:

Westminster Broadcasting Corporation KCMJ-AM 1010
Palm Springs: KPE904 450.020 - 450.050

WGN of California Inc.
KPG584 450.700 - 455.700

Well this list should keep everybody busy for sometime. Hope to have some more frequencies coming out real so... 73's Rick N6KIB

ROBERT STOFFEL (CA-OR-Ø26) OF FULLERTON, CALIFORNIA SENDS SOME LOS ANGELES & ORANGE COUNTY NEWSPAPER FREQUENCIES. ROBERT NOTES THAT THE FREQUENCIES COME FROM HIS PERSONAL MONITORING & ALSO FCC FILES. ROBERT REQUESTS THAT ANYONE WHO HAS MORE INFORMATION ON ANY OF THE LOS ANGELES TIMES FREQUENCIES TO PLEASE CONTACT THIS COLUMN.

HERE'S THE LIST ROBERT SENT US

ASSOCIATED PRESS; 453.Ø (KTI487) & 173.225 KV4234
THE DAILY NEWS; 173.325
EVENING OUTLOOK; 173.375 (KMK938)
FREEDOM NEWSPAPERS {THE ANAHEIM BULLETIN}; 173.275 (KLL297)
FREEDOM NEWSPAPERS {THE REGISTER}; 453.Ø (WBZ91Ø)
FREEDOM NEWSPAPERS; 152.48
HERALD EXAMINER 453.Ø (WYX336), 461.425 (KOH276), 154.6 (KA82656)
LONG BEACH PRESS TELEGRAM; 173.375
LOS ANGELES TIMES; 452.975, 173.225 (KMF618), 464.825 (WXM8Ø2), 154.6 (KA43314Ø), 173.325 (KNCZ957), 173.375 (KNCZ957), 35.96 (WXA485), 5Ø7.3875 (KOP391) & 462.1125 (KB41316)
ORANGE COAST DAILY PILOT; 452.975 (KWG496)
PASADENA STAR; 173.325 (KNAL215) & 173.375 (KNAL215)

UNTIL NEXT MONTH, GOOD NEWS & GOOD SCANNERING!

NEW PRODUCT REVIEW

This column is for reports on new products of interest to scanner listeners. Send reports on scanners, antennas, frequency publications and other products related to the hobby to:

James A. Abdu (GA-058), 1203 N. Crossing Way, Decatur, GA 30033

NO COLUMN THIS MONTH

photo department

Send photographs of custom monitor listening posts, unusual or extensive monitor or two-way antenna systems, user station consoles (PD, Fire, Paramedics, etc.) or other monitor/two-way related equipment of interest. Photographs must be 3 X 5 inches or larger, black-and-white with good contrast, sharply focused and attractively composed. Each photo must be accompanied by details and explanations of equipment. Photos will not be returned. If you have questions, write first and please include an SASE. Send photos or write to:

Hugh Stegman, 11622 Exposition Blvd., #2, Los Angeles, CA 90064

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MAPLE LEAF RAG

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Well, here comes summer. Dust off those cameras and get those photos of radios. I'm especially looking for anything from Expo '86. So let's take a long look at things Canadian, thanks to our intrepid regular contributor Gilles Thibodeau (CAN-101).

First, something for the rail fans. Photo #1 is of the classic "A" and "B" units pulling a passenger train for VIA Rail Canada. We saw one of their locomotive cab radios last November. Since tracks of both CP Rail and Canadian National are used, both sets of frequencies are carried.

Next up is a large, self-powered crane used by CP Rail. And our third shot is of CPR track-laying equipment. This setup puts down the smoother continuous welded rail.

CUSTOMS

Next (photo #4) is the U.S. Customs and Border Patrol station at the crossing in Coburn Gore, Maine. Antennas are obviously VHF, but the actual frequencies are sensitive.

The car in photo #5 is from the news department of the Canadian Broadcasting Corporation. The antenna looks like VHF, with UHF possibly in use also.

The military vehicle in #6 is a Canadian Forces "Grizzly". It is amphibious, and looks like it wouldn't have much trouble with bad roads or slush either. It carries two radios, one for HF, and one on low band VHF.

And in photo #7, we see some history. The convoy of cherry-picker trucks belongs to various Canadian hydro-electric companies. They are wending their way back up U.S. highway 91, in Vermont, having aided in the massive effort to restore power after last year's hurricanes. I would assume that these guys used their radios in the U.S., with FCC permission, and made some unique monitoring.

Next month we'll finish with Gilles' pictures, concentrating on the Quebec area. See you then!

PUBLIC SAFETY

This column is for reporting Public Safety and Special Emergency frequency information, radio system details, radio codes, dispatch areas, unit numbering systems, etc. for poilice, sheriff, fire, forestry (except USFS), fish and game, highway patrol, state police, prisons, prisoner work camps, local government, highway & street maintenance, port authority/bridge maintenance, animal control, ambulances, paramedics, hospitals, life guards, ski patrol, search & rescue, flood control, civil defense and disaster organizations. Input and questions for this column must be sent to the proper regional Public Safety editor listed below.

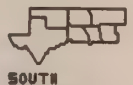
Associated Public-Safety Communications Officers, Inc.

OFFICIAL TEN SIGNAL LIST

APCO states the numbering, sequence, words or word phrasing of the below listed signals may no be altered, nor may the reserved signals be otherwise implemented except by APCO. Any user may employ signal numbers upward, beginning with 10-40, as needed for local dispatching. RCMA publishes this listing in support of APCO and their uniform dispatch code efforts. We will print other dispatch codes, different from the OFFICIAL APCO listing, only to assist our membership in their continued monitoring hobby. It is hoped you find this listing useful.

10-1	Signal weak	10-19	(In) contact
10-2	Signal good	10-20	Location
10-3	Stop transmitting	10-21	Call ( ) by phone
10-4	Affirmative (OK)	10-22	Disregard
10-5	Relay (to)	10-23	Arrived at scene
10-6	Busy	10-24	Assignment completed
10-7	Out of service	10-25	Report to (Meet)
10-8	In service	10-26	Estimated time of arrival
10-9	Say again	10-27	License/Permit Information
10-10	Negative	10-28	Ownership Information
10-11	( ) on duty	10-29	Records check
10-12	Stand by (stop)	10-30	Danger/Caution
10-13	Existing conditions	10-31	Pick up
10-14	Message/Information	10-32	( ) units needed (Specify)
10-15	Message delivered	10-33	Help me quick
10-16	Reply to message	10-34	Time
10-17	Enroute	10-35 through 10-39 are reserved for future assignment by APCO. User option 10-40 upward.	
10-18	Urgent		

R.C.M.A. SOUTH CENTRAL



Send Public Safety and Special Emergency frequencies, radio system details, and questions for Alabama, Arkansas, Louisiana, Mississippi, Tennessee, Oklahoma, and Texas to

Ed Lentz, 609 Yorkshire, Pasadena, TX 77503-1450

Hello there. To start off with, this isn't Ken nor Richard this time. Due to lack of time for Ken and Richard they have made the decision to step down from the Editor's position rather than let it suffer. I am not sure exactly when Ken started writing the Column but I think it was the May 1981 issue as co-editor of the Central column with Mike Redman and John Arendt. Somewhere about that time Ken and I started writing and working up a monitoring list of Texas. The list has grown to almost 100 pages and I plan to use this to help fill in the blank spaces each month. We both have learned more about the monitoring hobby and more of the how/why of radio systems.

My name is Ed Lentz and I live in Pasadena Texas which is on the edge of Houston. I have been monitoring since 1964 when I was working for a Mobile Phone company in Ft. Worth Texas. Back then all I used was a PRO-3 from Radio Shack. Now I use 9 radios and can go from .1 MHz to 905 MHz. I can be reached by several different ways. On Compuserve - 72645,172, Delphi - THISARSE, and GEnie - ELENTZ or by mail. The address is:

Ed Lentz
609 Yorkshire
Pasadena, Texas
77503-1450

In order for this column to contain some information that you want to read I will need your help. I don't have any information in my files from any of the covered states except Texas. As for Texas I have very little west of I-35. I know that you don't want to read only about East Texas and the Houston area. That is where you come in. Send whatever you have. I can use any of the agencies listed at the beginning of the Public Safety section of the newsletter. I don't care if you only have a single channel crystal scanner, what is the frequency and who is it for. To make it even easier just jot the information on a piece of paper or postcard and send it to me. I would like to have information from each state every month. In fact, I will have space for each every month. If it is blank, don't look at me. IT'S UP TO YOU!

ALABAMA

ARKANSAS

LOUISIANA

MISSISSIPPI

OKLAHOMA

TENNESSEE

TEXAS

By this time the Houston Fire Department will most likely be using the new frequency plan that was in the April 1986 issue. I am hearing mention of using channel 4 which would indicate the use of the new radios.

The next time you go by a local McDonalds you might try 35.020 and listen to see what is being ordered from the drivein window. The clerk uses 154.600 to talk back to the speaker.

Houston Police Dept. have made some changes since the last time anything was in the newsletter.

HOUSTON POLICE DEPT.

Ch.	Frequency	Used For
A1	460.325	North Shepherd Patrol
A2	460.125	North East Patrol
A3	460.025	South East Patrol
A4	460.050	Beechnut Patrol
B6	460.425	Computer Checks/Downtown
A6	460.100	North Central
B4	460.350	Special Operations/Traffic Control
A8	460.225	Car to Car - non-repeater
A9	460.400	Nar/CID/Vice/Juv.
B9	460.450	Det/Hom/Theft
A7	460.475	North West Patrol
A5	460.150	West Side Patrol
A12	460.075	South Central Patrol
	453.700	MDT for 28's & 29's
	155.670	Paging - HPD
	155.130	City Marshals 156.030
	154.860	City Marshals

Frequencies found in one of the new 24 Channel Motorola Handhelds.

Ch	Freq.	Marked	Ch	Freq.	Marked
A 1	465.325	NS	B 1	465.575	
A 2	465.125	NE	B 2	465.625	
A 3	465.025	SE	B 3	465.525	
A 4	465.025	SW	B 4	465.350	SO
A 5	465.150	WS	B 5	465.550	
A 6	465.100	CNT	B 6	465.425	CW
A 7	465.325	NW	B 7	465.575	
A 8	460.225	DIR	B 8	460.375	
A 9	465.400	ADM	B 9	465.450	
A10	-------		B10	-------	
A11	-------		B11	-------	
A12	465.075	SC	B12	465.425	

Now let's get away from Houston for awhile and go around the State.

COUNTY SHERIFF OFFICES OF TEXAS

All Counties have common Channel 3 154.950 and 4 155.370 unless noted.
[Brackets] indicate unconfirmed freq's.

	County	Ch. 1	Ch. 2	Ch. 5	
1	Anderson	154.755	155.865		
2	Andrews	155.670	154.785		
3	Angelina	154.890	154.710		
4	Arkansas	155.250			
5	Archer	[155.505]			
6	Armstrong	155.880			
7	Atascosa	155.730			
8	Austin	154.815			
9	Bailey	[155.595]			
10	Bandera	155.610			
11	Bastrop	154.115			
12	Baylor				
13	Bee	154.740			
14	Bell	155.655	PD's		
15	Bexar	155.790	155.985		
16	Blanco	154.755			
17	Borden	[155.730]			
18	Bosque	155.250			
19	Bowie	154.815	154.845		
20	Brazoria	155.685			
21	Brazos	155.670			
22	Brewster	[155.655]			
23	Brisco				
24	Brooks	155.010			
25	Brown	155.550			
26	Burleson	155.535			
27	Burnet	154.785			
28	Caldwell	154.815			
29	Calhoun	154.815]			
30	Callahan	[154.640]			
31	Cameron	155.550			
32	Camp	155.655			
33	Carson	155.865			
34	Cass	154.740			
35	Castro				
36	Chambers	155.805			
37	Cherokee	155.130	154.785		
38	Childress				
39	Clay	[155.625]			
40	Cochran				
41	Coke	[155.610]			
42	Coleman	[155.625]	[154.860]		
43	Collin	155.610	[6]154.025		
44	Collingsworth				
45	Colorado	155.745			
46	Comal	155.595	155.190		
47	Comanche	155.520			
48	Concho	155.730			
49	Cooke	155.130			
50	Coryell	155.685			
51	Cottle				
52	Crane	155.565			
53	Crockett	155.670	154.725		
54	Crosby	[155.550]			
55	Culberson	155.655			
56	Dallam				
57	Dallas	155.715	155.985	155.670	[6]154.995
		[7]155.250	[8]155.970		
58	Dawson	[155.565]			

59	Deaf Smith	155.775		
60	Delta	155.625		
61	Denton	155.835		
62	De Witt	155.250		
63	Dickens			
64	Dimmit	155.790		
65	Donley			
66	Duval	155.535		
67	Eastland	[155.580]		
68	Ector	155.700		
69	Edwards	[155.790]		
70	Ellis	155.835		
71	El Paso	158.730	154.860	
72	Erath	155.190		
73	Falls	154.740		
74	Fannin	154.725		
75	Fayette	154.740		
76	Fischer	[155.595]		
77	Floyd	[154.725]		
78	Foard			
79	Ft. Bend	155.925	155.535	
80	Franklin	[155.520]		
81	Freestone	155.595		
82	Frio	155.685		
83	Gaines	[155.625]		
84	Galveston	155.565	154.875	
85	Garza	[155.610]		
86	Gillespie	155.730		
87	Glasscock	[155.655]		
88	Goliad	154.800		
89	Gonzales	155.790		
90	Gray			
91	Grayson	154.785		
92	Gregg	155.415		
93	Grimes	154.800		
94	Guadalupe	154.785	155.130	
95	Hale	[155.520]		
96	Hall			
97	Hamilton	155.595		
98	Hansford			
99	Hardeman			
100	Hardin	154.770	154.860	
101	Harris	154.890	153.920	
102	Harrison	155.595		
103	Hartley			
104	Haskell			
105	Hays	155.865	155.130	
106	Hemphill			
107	Henderson	155.310	155.010	PD's
108	Hidalgo	155.625		
109	Hill	155.550	154.830	
110	Hockley	[155.670]		
111	Hood	155.790		
112	Hopkins	155.130		
113	Houston	154.875		
114	Howard	[155.535]		
115	Hudspeth	155.730	[155.655]	
116	Hunt	155.835		
117	Hutchinson			
118	Irion			
119	Jack	[155.655]		
120	Jackson	154.785		
121	Jasper	154.725	154.860	
122	Jeff Davis	[155.655]		
123	Jefferson	³460.500	⁰460.200	¹460.275 ²460.350
124	Jim Hogg	155.670		
125	Jim Wells	154.640		
126	Johnson	158.745		
127	Jones	[155.790]		
128	Karnes	154.875		
129	Kaufman	155.520		

130	Kendall	155.655		
131	Kenedy			
132	Kent	[155.625]		
133	Kerr	155.550	155.415	
134	Kimble	155.685		
135	King			
136	Kinney	[155.655]		
137	Kleberg	154.875		
138	Knox			
139	Lamar	155.685		
140	Lamb	[155.625]		
141	Lampasas	155.565		
142	La Salle	[155.565]		
143	Lavaca	154.860		
144	Lee	154.755		
145	Leon	155.490	156.150	
146	Liberty	155.835	154.890	
147	Limestone	155.010	155.745	
148	Lipscomb			
149	Live Oak	155.010		
150	Llano	154.815		
151	Loving	154.725		
152	Lubbock	[155.535]		
153	Lynn	[155.685]		
154	Mc Culloch	155.580		
155	Mc Lennan	155.730	154.875	
156	Mc Mullen	155.880		
157	Madison	154.725		
158	Marion	155.685		
159	Martin	[155.595]		
160	Mason	155.640		
161	Matagorda	154.740		
162	Maverick			
163	Medina	155.640		
164	Menard	155.565		
165	Midland	[155.610]		
166	Milam	155.595		
167	Mills	155.790		
168	Mitchell	[155.580]		
169	Montague	[155.550]		
170	Montgomery	155.085	Various	155.250
171	Moore			
172	Morris	155.535	158.775	
173	Motley			
174	Nacogdoches	154.830	154.770	
175	Navarro	155.130	155.565 PD	
176	Newton	154.725	154.860	
177	Nolan	[155.685]		
178	Nueces	154.785		
179	Ochiltree			
180	Oldham	155.025		
181	Orange	460.275	460.350	
182	Palo Pinto	155.130		
183	Panola	155.400	155.070	
184	Parker	155.725		
185	Parmer	[155.730]		
186	Pecos	155.550	154.785	
187	Polk	154.785		
188	Potter	154.800	154.055	
189	Presidio	[155.655]		
190	Rains	154.860		
191	Randall	155.415	154.725	
192	Reagan			
193	Real			
194	Red River	155.700		
195	Reeves	155.610	154.770	
196	Refugio	155.595		
197	Roberts			
198	Robertson	155.580		
199	Rockwall	[155.865]		
200	Runnels	[155.655]		

201	Rusk	154.815	PD's		
202	Sabine	154.785	154.725		
203	San Augustine	154.800	154.725		
204	San Jacinto	154.845	154.445F		
205	San Patricio	155.550			
206	San Saba	155.700	154.845		
207	Schleicher	155.625			
208	Scurry	[155.700]			
209	Shackelford	[155.730]			
210	Shelby	154.875	154.845		
211	Sherman				
212	Smith	154.725			
213	Somerville	155.790			
214	Starr	155.700			
215	Stephens	[155.685]			
216	Sterling	[155.565]			
217	Stonewall				
218	Sutton	155.595			
219	Swisher	155.895			
220	Tarrant	37.240	37.120		
221	Taylor	[155.535]			
222	Terrell	[155.655]			
223	Terry	[155.640]			
224	Throckmorton				
225	Titus	154.755			
226	Tom Green	[155.700]			
227	Travis	154.085	153.935	[3]154.845	[4]153.800
228	Trinity	154.815			
229	Tyler	154.755	154.725		
230	Upshur	155.790			
231	Upton	155.550			
232	Uvalde	155.790?	155.700		
233	Val Verde	155.640	[155.655]		
234	Van Zandt	155.685	154.890		
235	Victoria				
236	Walker	155.895	155.730		
237	Waller	155.760			
238	Ward	155.790			
239	Washington	155.625			
240	Webb	155.700			
241	Wharton	155.805	154.115		
242	Wheeler				
243	Wichita	[155.790]			
244	Wilbarger				
245	Willacy	155.700			
246	Williamson	154.860	154.725		
247	Wilson	155.550			
248	Winkler	[155.640]			
249	Wise	158.805			
250	Wood	154.785			
251	Yoakum	[155.790]			
252	Young				
253	Zapata	155.550			
254	Zavala	155.595			

PUBLIC SAFETY — GREAT LAKES:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — Illinois, Indiana, Wisconsin, Michigan, Kentucky, and Ohio:

Jack Waterman, 466 Kings Way, Mundelein, IL 60060

NO COLUMN THIS MONTH

PUBLIC SAFETY — NORTH EAST:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — New England states, New York, Pennsylvania, New Jersey, Maryland, Delaware, and District of Columbia:

C. Homer (Hank) Rose III (NJ-206), 2 S. Gold Drive, Robbinsville, NJ 08691

Welcome to the PUBLIC SAFETY NORTHEAST COLUMN. For those of you who think that you have seen a misprint, you haven't. Bill Mauldin, RCMA's General Editor has asked me to "laterally transfer" my efforts from the MONITORING & THE LAW column to PSNE. As is always the case, this is YOUR NEWSLETTER and I am interested in helping the membership as much as possible. Consequently, your input and questions will assist me in preparing a column which will, hopefully, be of interest to all of us. Any ideas and/or suggestions, updated information, etc. will be most appreciated. For those of you who may be new members and wonder what area this column will cover, may I offer the following:

> PSNE will cover the following states: Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island, New York, Pennsylvania, New Jersey, Delaware and Maryland.

My primary interest lies in the various State Police agencies which are located in the Northeast. Having actually spent a great deal of time, both investigating the systems and listening to the communications, I feel well-qualified to comment on them. I realize that there are as many interests as there are members and I will attempt to diversify the column as much as possible.

As time is of the essence this month, I will mention the various frequencies found in the TRENTON, NJ area:

TRENTON POLICE DEPARTMENT

(F1)	453.375	Primary Dispatch	458.375	Mobiles
(F2)	453.425	Detectives	458.425	Mobiles
(F3)	453.225	Surveillance Mobile to Mobile		

458.225 is the Mercer County Police Intersystem. As a matter of information, all activity may be heard on the base frequencies.

The 458.xxx frequencies are the mobile input frequencies (Simplex).

TRENTON FIRE DEPARTMENT

460.575	Dispatch
460.600	Alternate frequency (rarely used)

TRENTON EMERGENCY MEDICAL SERVICES

155.265	Dispatch (also Mercer County MICUs)
155.340	Hear System
155.280	State ambulance net
153.785	State Police EMS coordination

Trenton EMS also is equipped to operate on MED Channels 1-10. In this area, Channel 9 is 462.950 MHz and Channel 10 is 462.975 MHz.

This column is for the exchange of space communications systems (manned or unmanned), frequency information, orbital data, hobby receiving equipment and antennas. Questions and column input pertaining to Space Communications Monitoring should be sent to:

NO COLUMN THIS MONTH **Larry Van Horn, 160 Lester Dr., Orange Park, FL 32073**

PUBLIC SAFETY — NORTH CENTRAL:

Send Public Safety and Special Emergency frequencies, radio system details and questions as follows — Iowa, Kansas, Missouri, Nebraska, N. Dakota, S.Dakota, and Minnesota:

Kurt Swaney, P.O. Box 1198, Manhattan Beach, CA 90266-8198

NEWS_____

Welcome to the JULY 1986 Public Safety North Central column!

I have received many requests from PSNC members who desire to contact other PSNC members for additional system/frequency information. If you send me a PSNC contribution, I will be happy to include your information request at the end.

I also suggest you send a copy of your request to RCMA's Contact/Info Wanted column, Scott Mattson, Editor, 2820 Bridge Ave, Point Pleasant, NJ 08742.

I am certain you have probably realized that I use the same frequency listing format throughout each column. With this in mind, please note that the system description abbreviations seen at the beginning of each MAJOR CITY article are also used throughout the column.

Fox Scanner Radio Listings have frequency directories available for many cities in the PSNC region. Prepared by Norman Schrein, OH-145, who writes the Monitoring Times Scanning column, the directories include the standard public safety fare, in addition to aircraft, business, local government, marine, railroads, and utilities to name a few. Each directory is divided into individual service sections and alphabetical cross references for frequency assignment and call sign. Also included are radio codes, applicable monitoring laws and a host of other useful monitoring information. The 8.5" by 11" directories are very full of information and that, combined with the single space double column format, sometimes requires patience to find the information in which you are interested. The directories make good reference resources and you will see them cited periodically at the end of the PSNC column.

The KANSAS CITY area edition (RL 011-2, 165 pages, $12.95) covers sixteen western MO counties: Andrew, Atchison, Buchanan, Cass, Clay, Clinton, Dekalb, Gentry, Holt, Jackson, Johnson, Lafayette, Nodaway, Platte, May and Worth; as well as seven eastern KS counties: Atchison, Brown, Doniphan, Johnson, Leavenworth, Miami and Wyandotte.

The MINNEAPOLIS/SAINT PAUL area edition (RL 010-2, 296 pages, $12.95) covers eighteen eastern MN counties: Anoka, Carver, Chisago, Dakota, Dodge, Fillmore, Goodhue, Hennepin, Houston, Isanti, Mower, Olmsted, Ramsey, Rice, Scott, Wabasha, Washington, Winona; as well as eleven western WI counties: Barron, Buffalo, Chippewa, Dunn, Eau Claire, La Crosse, Pepin, Pierce, Polk, Saint Croix and Trempealeau.

For more information on the Fox series of frequency directories, you can contact Fox Marketing at 4518 Taylorsville Road, Dayton, OH 45424 or (800) 543-7892.

If you publish or plan to publish a frequency directory which would be of interest to the PSNC region, please let me know. RCMA likes to keep its members informed of new publications and updates.

From Steve, IA-056: Waterloo and Cedar Falls, IA

Waterloo, IA, population 77,000, is located in Black Hawk county at the intersection of U.S. Highway 20 and Highway 63 in northeastern IA. Cedar Falls, IA, population 37,000, is just west of Waterloo on US 20.

Can you help fill in the question marks?

BHFD Black Hawk County Fire Protection District
BHLG Black Hawk County Local Government

BHSO	Black Hawk County Sheriff Office
CFFD	Cedar Falls Fire Department
CFLG	Cedar Falls Local Government
CFPD	Cedar Falls Police Department
IHC	IA Highway Commission (Department of Transportation)
IHP	IA Highway Patrol
LEA	Law Enforcement Assistance (IA Law Enforcement Mutual Aid)
UNI	University of Northern Iowa
WFD	Waterloo Fire Department
WLG	Waterloo Local Government
WPD	Waterloo Police Department

FREQ	SYS	CHAN	USER	ASSIGNMENT	LOCATION	CALL
154.145	S	F1	CFFD	dispatch		KVW 225
154.250	S	F1	WFD	dispatch		KAD 861
154.280	S	F2	WFD	IA Fire Dept Mutual Aid		KAD 861
	S	F2	BHFD			KFN 686
	S	F2	CFFD			KVW 225
154.370	S	F1	BHFD	dispatch		KFN 686
47.420	S		American Red Cross		Waterloo	WQM 628
155.175	S	F2				
	S	F2			Cedar Falls	KZI 340
	S		Schoitz Mem Hosp		Waterloo	KZB 241
155.220	S		Sartori Mem Hosp		Cedar Falls	KNFG 792
155.340	S		Schoitz Mem Hosp		Waterloo	KZB 241
	S	F1			Cedar Falls	KZI 340
155.550	S	F ?	IHP	assignment?	Cedar Falls	KSZ 865
155.565	R	F1	IHP	Post 9	Waterloo	KUV 795
155.700	R	F1	IHP	LEA, area 3	Waterloo	KUV 795
37.100	S	F ?	BHSO	assignment ?	Waterloo	KAD 756
37.120	S	F ?	BHSO	assignment ?	Waterloo	KAD 756
154.800	S	F ?	BHSO	assignment ?	Waterloo	KAD 756
154.875	S	F1	BHSO	dispatch ?	Waterloo	KAD 756
155.070	S	F ?	BHSO	IO to Bremer SO ?	Waterloo	KAD 756
155.130	S	F ?	BHSO	assignment ?	Waterloo	KAD 756
155.475	S	F ?	CFPD	Natl Law Enfrcmnt	Mutual Aid	KAB 546
	S	F ?	BHSO			KAD 756
155.580	S	F2	BHSO	assignment ?	Waterloo	KAD 756
155.670	S	F ?	BHSO	assignment ?	Waterloo	KAD 756
155.850	S	F ?	BHSO	assignment ?	Waterloo	KAD 756
155.910	S	F ?	BHSO	assignment ?	Waterloo	KAD 756
154.800	S	F ?	CFPD	assignment ?		KAB 546
155.130	R	F1	CFPD	dispatch ?		KAB 546
155.370	S		CFPD	IA intersystem		KAB 546
	S		WPD			KAB 214
155.415	S	F ?	CFPD	assignment ?		KAB 546
460.025	R	F1	WPD	assignment ?		KAB 214
460.050	R	F2	WPD	assignment ?		KAB 214
460.100	R	F3	WPD	assignment ?		KAB 214
37.100	S	F ?	BHLG	assignment ?		KTN 276
37.260	S	F ?	BHLG	assignment ?		KTN 276
153.935	S	F ?	BHLG	assignment ?		KTN 276
154.115	S	F ?	BHLG	assignment ?		WYK 457
154.515	S	F ?	UNI	assignment ?	Waterloo	KQQ 793
154.540	S	F ?	UNI	maintenance	Waterloo	KQQ 793
155.085	S	F ?	CFLG	assignment ?		KSM 223
155.550	S	F ?	UNI	security	Waterloo	KSZ 865
155.925	S	F ?	WLG	assignment ?		KQM 781
158.745	S	F ?	WLG	assignment ?		KGT 520
158.820	S	F ?	CFLG	street department		KAM 387
159.195	R	F2	IHC		Waterloo	WKZ 92
162.550	S		NOAA Weather Radio		Waterloo	WXL 94
453.225	R		M.E.T. Buses		Waterloo	WRE 368

?? What does M.E.T. stand for ??

Also from Steve, IA-056: Marion, IA

Marion, IA, populaton 19,000, is adjacent to the northeast corner of Cedar Rapids, IA on U.S. Highway 151. Marion is in Linn County in east central IA. For more information on Linn County and Cedar Rapids, IA, please see the June Major City article.

LCFD Linn County Fire Department
LCLG Linn County Local Gov't
MLG Marion Local Government
MFD Marion Fire Department
MPD Marion Police Department

FREQ	SYS	CHAN	USER	ASSIGNMENT	LOCATION	CALL
154.160	S	F ?	MFD	dispatch		KDB 473
154.265	S	F ?	MFD	LCFD srch & rescue		KDB 473
154.430	S	F ?	MFD	LCFD dispatch		KDB 473
37.280	S		MPD?	assignment ?	Marion	KAA 425
460.400	R	F4	MPD	city wide		WZX 443
460.475	R	F1	MPD	dispatch		WZX 443
460.500	R	F2	MPD	information		WZX 443
37.100	S		MLG ?	assignment ?	Marion	KAA 425
37.180	S		LCLG ?	assignment ?	Marion	KGY 240
39.180	S		LCLG ?	assignment ?	Marion	KNGW 220
39.580	S		LCLG ?	assignment ?	Marion	KNGW 220
45.080	S		MLG ?	assignment ?	Marion	KAN 384
47.720	S	F ?	Linn County Rural Electric		Marion	KAB 487
48.480	S	F ?	Linn County Rural Electric		Marion	KAB 487
159.180	R	F1	IHC		Marion	KDB 460
451.275	R		Linn County Rural Electric		Marion	KNGZ 639
451.750	R		LCLG ?	assignment ?	Marion	WGP 584

As always, your corrections and additions are encouraged...and, of course, Thanks go to Steve for his contributions!

SERVICE TOPIC

Emergency Prepardness or Management
and Civil Defense

This month's Service Topic is on the state and local Civil Defense (or, the new classification, Emergency Prepardness or Emergency Management) communication systems in the PSNC region.

If your state, county or local agency is not included, please write and let me know. Corrections/Additions are requested.

American National Red Cross

47.420	S	F1	American Red Cross	nationwide
47.460	S	F2	American Red Cross	nationwide

Please see the July 1986 Communications Profile column for a detailed article on the Red Cross prepared by PSNC's own Mike Redman, MO-002.

REACT

462.550	R,S	General Mobile Radio Service (GMRS)
462.575	R,S	GMRS
462.600	R,S	GMRS
462.625	R,S	GMRS
462.650	R,S	GMRS
462.675	R,S	GMRS
462.700	R,S	GMRS
462.725	R,S	GMRS

While researching I discovered that many areas in the PSNC region depend on REACT (Radio Emergency Action Team) teams to provide local and regional Civil Defense communications using the General Mobile Radio Service (GMRS) frequency allocations. Systems can be either simplex or repeater.

If you are a member of GMRS REACT team in the PSNC region, or

regularly monitor REACT, please let me know. I will compile a list of GMRS REACT teams to appear in this column.

Abbreviations

Cnty	County		
CD	Civil Defense	EM	Emergency Management
EP	Emergency Prepardness	WS	Weather Spotters

FREQ	SYS	CHAN	USER	ASSIGNMENT	LOCATION	CALL
IA						
37.900	S	F ?	IA Emerg Serv Radio Ptrl		Cedar Rapids	WQN 762
37.980	S	F ?	IA Emerg Serv Radio Ptrl		Cedar Rapids	WZX 718
154.265	S	F ?	Iowa County CD		Des Moines	KBV 927
154.280	S		IA Fire Mutual Aid			
154.280	S		IA Office of Disaster Serv		Des Moines	KBV 927
154.280	S	F ?	Iowa County CD			KBV 927
	S	F ?	Bremer County CD		Waverly	KQR 545
154.340	S	F ?	Bremer County CD		Waverly	KQR 545
KS						
155.160	S		Douglas Cnty Skywarn (WS)		Lawrence	KNDH 512
155.175	S	F ?	Mennonite Disaster Services	- Region 3 *		WRG 747
155.205	S	F ?	Mennonite Disaster Services	- Region 3 *		WRG 747
155.220	S	F ?	Mennonite Disaster Services	- Region 3 *		WRG 747
155.280	S	F ?	Mennonite Disaster Services	- Region 3 *		WRG 747
155.760	S		Johnson County CD		Olathe	KAV 268
155.805	R		Douglas County EP		Lawrence	KQL 884
155.925	S		Riley County CD		Manhattan	WZT 922
158.760	R		Shawnee County CD		Topeka	

* ? Does anyone have any details on the Mennonite Disaster Services ?
? Anyone hazard a guess as to what part of KS is Region 3? 1,2? 4 ?

MN

I did not readily find any MN Emergency Prepardness listings.

MO						
45.120	S		CD Administrative Net		Jefferson City	KCS 531
153.890	S	F ?	South St Louis Cnty CD		Clayton	KBH 779
153.920						
154.040	S		Hickory County CD		Hermitage	KUR 466
154.055	R	F ?	CD Eastern MO Net		Jefferson City	KCS 531
154.370	S	F ?	West St Louis Cnty CD		Clayton	KBH 779
154.400	S	F ?	North St Louis Cnty CD		Clayton	KBH 779
155.145	S		Butler County CD		Popular Bluff	KTZ 396
155.715	R	F ?	CD Eastern MO Net		Jefferson City	KCS 531
155.835	R	F3	St Charles County CD		St Charles	KNFR 268
					O'Fallo	KVA 975
155.865	S		School Radio Warning Sys		St Louis	KZC 638
NB						
39.900	S		statewide CD (NB Law Enfrcmnt Mutual Aid)			
158.895	S		Hall County CD		Grand Island	KYG 702

ND

I did not readily find any ND Emergency Prepardness listings.

SD						
154.040	S		Tripp/Todd Cnty CD		Winner	KWM 643
155.040	R		Bon Homme County CD		Tyndall	KYU 771
155.760	S		Charles Mix County CD		Lake Andes	KBK 838
158.745	R		Minnehaha County CD		Sioux Falls	KDV 419
158.760	R		Eagles Nest CD Department		Martin	KLC 955
158.820	R		War Hawk CD Department		Firesteel	KFD 515
					Selby	KFD 514
158.865	R		Hutchinson County CD		Olivet	KDB 528
158.925	R		Southwest SD EP District		Custer	KZE 512

MAJOR CITY_____

Topeka, KS

Topeka, KS, population 115,000, is the Kansas State Capital. Topeka is located in Shawnee County at the junction of Interstate 70 and the Kansas Turnpike in northeastern Kansas. Much of this information came from Charles, a non-member who lives in Topeka.

As always, your additions and corrections are welcome!

System Abbreviations

R: repeater system output frequency
I: repeater system input frequency
H: half-duplex radio system
S: simplex radio system
B: base station
M: mobile
PG: paging only
V: vehicular repeater
("H" implies standard B-M, M-M and M-B frequency pairings)

Services

KHP	KS Highway Patrol
KTA	KS Turnpike Authority
Medevac	ambulance service for Shawnee County
MTFD	Mission Township Fire Department
SNAS	Shawnee County Ambulance Service
SNCD	Shawnee County Civil Defense
SNFD	Shawnee County Fire District
SOFD	Soldier Township Fire District
TTFD	Topeka - Tecumseh Fire District
TFD	Topeka Fire Department
TPD	Topeka Police Department

FREQ	SYS	CHAN	USER	ASSIGNMENT	LOCATION	CALL
154.070	S	F2	TFD	fireground ?		KAA 386
154.190	S	F ?	TTFD	dispatch ?	Tecumseh	KFF 449
154.220	S	F ?	SNFD	dispatch ?	Silver Lake	WSS 373
154.295	S	F ?	SNFD	mutual aid	Silver Lake	WSS 373
154.340	R		SOFD	dispatch ?	Topeka	KDV 796
154.415	S	F2	MTFD	secondary	Topeka	KMA 970
154.430	S	F1 ?	TFD	dispatch ?		KAA 386
453.800	R	F ?	TFD	"alarm-to-station" ?		WQQ 938
453.850	R		MTFD			
47.580	S		Stormont-Vail Regional Med Cntr			KAR 987
155.160	S		Auburn-Washburn Universities			KWZ 997
155.200	PG ?		KS Emergency Physicians		paging ?	WSW 687
155.280	S		A.T. Meyers & Son Ambulance			KMA 938
155.340	S	F ?	Medevac	HEAR medical		KNJC 578
163.250	PG		St Francis Hospital			KNFX 438
453.275	R		SNCD	Hospital Net		KNIC 646
462.950	R	F9	Medevac	assignment ?		KNHP 866
462.975	R	F10	Medevac	dispatch		KNHP 866
464.825	R		St Francis Hospital		security ?	KNDC 894
39.460	S		SNSO	intersystem	Topeka	KAA 399
39.580	H,B	F1	SNSO	dispatch	Topeka	KAA 399
39.580	S,M	F2	SNSO	intermobile		KAA 399
39.680	S	F3	SNSO	assignment ?	Topeka	KAA 399
39.700	H,M	F1	SNSO	paired w/39.580		
39.800	S	F4	SNSO	assignment ?	Topeka	KAA 399
453.450	R		SNSO	Law Enfrcmnt Net	Topeka	WNAZ 729
44.820	H,M	F1	KHP	paired w/44.980		KA 5431
44.980	H,B	F1	KHP	Division 1	Topeka	KAA 471
44.980	S,M	F2	KHP	intermobile		KA 5431
45.140	S	F5	KHP	aircraft	Topeka	KAA 471
45.400	S		?	assignment ?	Topeka	KAA 471
154.680	R		KHP	turnpike	Wichita	KAI 974
155.310	R		KS Dept of Corrections			KZI 235
155.535	R ?		KS Dept of Corrections ?			KZI 235

453.225	R		?	assignment ?	Topeka	WYC 891
453.700	R		Capital Security			KLR 418
158.835	S		TPD ?	tactical ?		KCE 445
460.250	R	F4	TPD	administration		KTU 239
460.350	R	F3	TPD	information		KTU 239
460.400	R	F2	TPD	secondary		KTU 239
460.475	R	F1	TPD	dispatch		KTU 239
32.500	S		KS National Guard		aircraft	
36.900	S		KS National Guard (MAST)		aircraft	
39.200	S		KS Fish and Game Commission		??	?
39.780	S		KS Fish and Game Commission		??	?
41.700	S		KS National Guard		Aircraft	
47.120	H,M		KS Dept of Transportation			
47.180	H,B	F1	KS Dept of Transportation			KRO 271
155.805	R		SNCD	link to DGCD	Lawrence	KQL 884
158.745	R		SNCD			KFX 261
35.920	S		Salvation Army			?
37.560	S	F ? *	Kansas Power and Light		Topeka	KAI 746
37.620	S	F1 *	Kansas Power and Light		Statewide	
37.680	S	F ? *	Kansas Power and Light		Topeka	KAI 746
44.640	S		Topeka Park Department			KEY 997
47.420	S		American National Red Cross			KAS 877
47.460	S		American National Red Cross			KAS 877
47.700	S	F1 ?	Gas Service			KAF 923
47.820	S	F2 ?	Gas Service			KAF 923
151.100	R		KTA	maintenance	Wichita	KAI 974
151.955	S		Benchmark Security			KZX 862
151.985	R		Southwestern Bell Telephone		Service	KBK 439
153.590	S		Kaw Valley Electric Cooperative			KDI 790
154.995	R		TLG	assignment ?		KEX 311
155.055	S		TLG ?	assignment ?		KNIK 450
155.835	S		TLG ?	assignment ?		KFM 618
158.805	S		Topeka Airport Authority			KKC 682
158.880	S		TLG ?	assignment ?		KU 2063
153.350	S	F ?	WREN Radio			KAK 548
161.640	S	F1	WIBW Television (Ch 13 -- CBS)			KAL 653
161.700	S	F2	WIBW Television			KAL 653
161.730	S		KSNT Television (Ch 27 -- NBC)			KJR 570
161.760	S	F ?	Harris Enterprises		radio/TV ?	KAO 280
162.475	S		NOAA	Weather Radio	Topeka	WXK 91
166.200	S		V.A. Hospital Security			?
166.250	S	F ?	Harris Enterprises		radio/TV ?	KUI 283
170.150	S	F ?	WREN Radio			?
173.325	S		Topeka Capital-Journal Newspaper			KBM 466
173.587	S		Forbes Air Force Base		crash	
450.050	S	F ?	KSKX and KMAJ Radio			KA 74776
450.150	S	F ?	KSKX and KMAJ Radio			KA 74776
450.250	R		KSNT Television			WHN 935
450.850	R		KLDH Television (Ch 49 -- ABC)			?
451.025	R		Topeka Water Department			KAH 470
451.075	R	F ?	Kansas Gas and Electric			KNJC 234
451.150	R	F ?	Kansas Gas and Electric -- Wolfcreek ?			KNJC 234
451.400	R		Southwestern Bell Telephone Maintenance			KCS 232
453.725	R		TLG ?	assignment ?		KU 2063
453.750	R	F ?	Topeka Metro Transit Authority			KAA 230
453.975	R	F ?	Topeka Metro Transit Authority			KAA 230
461.375	R		Topeka FM Communications (Motorola)			KAM 565
461.625	R		Topeka Unified School District			KLK 422
463.475	R	F ?	Seaman Unified School District			WSK 814
463.650	R		Solid State Communications (GE)			KIV 626
464.375	R	F ?	Kansas Expocentre		assignment ?	WNCA 506
464.525	R	F ?	Kansas Expocentre		assignment ?	WNCA 506
464.975	R	F ?	Seaman High School		assignment ?	KNDE 498
860.8625	R		Federal Express			WNBG 540

* Kansas Power and Light has 8 frequencies they use throughout Kansas. ?? Does anyone know KPLs frequency assignments ??

COMING IN AUGUST 1986

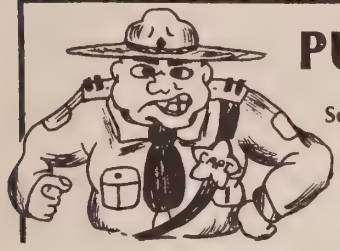
Major City: Minneapolis/St Paul, MN
Service Topic: Fire Departments

[Remember, the deadline for Rapid City, SD and City Police Departments, to appear in December, is Sept 10.]

CREDITS

Some of the above information came from...

(1) FCC Microfiche, City/State Cross Reference (8/85)
(2) Monitor America, 85-86 ed., SMB Publishing, PO Box 244, Natick, MA 01760
(3) Police Call, Vol 5, Hollins Radio Data, PO Box 35002, Los Angeles, CA 90035



PUBLIC SAFETY — SOUTH EAST:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — Florida, Georgia, N. Carolina, S. Carolina, W. Virginia and Virginia:

Jorge L. Rodriguez, 1129 Castile, Coral Gables, FL 33134

Hello! Welcome to the Southeast Public Safety column. This month we will be focusing on North Central Florida and Alachua County in particular. Alachua county established the first 911 Emergency Communications Center in Florida in 1974. The current, new facility provides for the first time adequate space for efficient communications operations. There is room for additional equipment which will be necessary for expansion of services in the future.

The Alachua County Emergency Communications Center answers all of the 911 emergency calls in Alachua County and some surrounding areas in adjoining counties. The telephone calls are either transferred to the appropriate Public Safety service providers or the information is processed and the units are directly dispatched by the center.

The transfer capability of the system is accomplished by dedicated telephone lines between the center and the cooperating agency or by a simple call transfer.

The following agencies are directly connected to the Emergency Communications Center: Alachua County Sheriff's Office,Gainesville Police Department, Florida Highway Patrol, University of Florida Police Department, Alachua County Crisis Center, State of Florida's Forestry Division, Alachua General Hospital Poison Control Center, Gainesville Regional Utilities (ie. electric co.), Regional Transit Authority, ShandscAIR (Shands Hospital), STAT Flight (Alachua General Hospital), V.A. Hospital, North Florida Regional Hospital, Gainesville Fire stations, Alachua County EMS base, Gainesville Regional Airport Tower, and the Sunland Training Center.

Through this system the Emergency Communications Center is able to quickly and efficiently contact these agencies and properly process the daily emergency responses in the county. In addition plans have been approved by the Alachua County Commissioners to install a state of the art enhanced or E911 System. This new system will display the telephone number and address of the person calling from telephone company CNA (Customer Name and Address) records. Expected to be in operation

by May of 1987 this system will trim critical seconds from the emergency call facilitating a quicker response from all the emergency services providers.

Alachua County

Gainesville Police Department

460.025	F1	Dispatch/Patrol	KQP491
460.125	F2	Detectives	
460.275	F3	Emergency/Tach	
460.375	F4	Information	
156.030	F5	Paging	KIB903

Alachua County Sheriff's Office

460.175	F1	Dispatch/Patrol	KWI827
460.475	F2	Alternate	
460.275	F3	Emergency/Tactical	
460.275	F4	Car-Car (Simplex)	

University of Florida Police

460.225	F1	Patrol/Operations	KIE831
460.025	F2	Link to GPD	
453.375		SNAP Units	

Gainesville Fire Department

154.400	F1	Combat/Tactical	WGJ313
154.250	F2	Alternate/Drills	WGJ312
154.145	F3	Paging/Alternate	KTC624

Miscellaneous County Emergency Service Providers

155.160	County Fire Dispatch	
154.325	County Fire Rescue Paging	
154.070	County Fire Combat	
158.925	Civil Defense	
154.115	Civil Defense	
463.050	MEDCOM-3	Alachua General/North Florida Regional
463.075	MEDCOM-4	Shands Hospital
463.125	MEDCOM-6	Alternate
463.175	MEDCOM-8	Regional Medical Resource

Marion County

155.610	City of Ocala Police	KIB820
154.815	Marion County Sheriff's Office	KYQ313
154.130	City of Ocala Fire	KIJ768
154.160	Marion County Fire/Rescue Paging	KWB827
155.760	Marion County Fire Operation Net	KIT893
453.150	Marion County Ambulance Paging	KUG739
463.025	Marion County Ambulance Dispatch	KZQ730

Columbia County

145.890	Lake City Police	KIB443
155.010	Columbia County Sheriff's Office	KIF443
154.370	Lake City Fire And Rescue	KIF863

Union County

155.985	Union County Fire and Rescue	KYL873
155.730	Union County Sheriff's Office	KIH947

Bradford County

155.914	Starke Police	KAQ920
154.740	Bradford County Sheriff's Office	KIG514
153.920	Bradford County Fire and Rescue	KFK524

155.940		Starke Local Government-Fire	KAQ937

Clay County

155.700		Clay County Sheriff's Office	KIF637
154.070	F1	Clay County Fire and Rescue	KYO379
154.205	F2	Clay County Fire and Rescue	
154.235	F3	Clay County Fire and Rescue	
154.430		Keystone Heights Fire	

Putnam County

154.755	Palatka Police Department	KIC805
154.190	Palatka Fire and Rescue	KIS622

Levy County

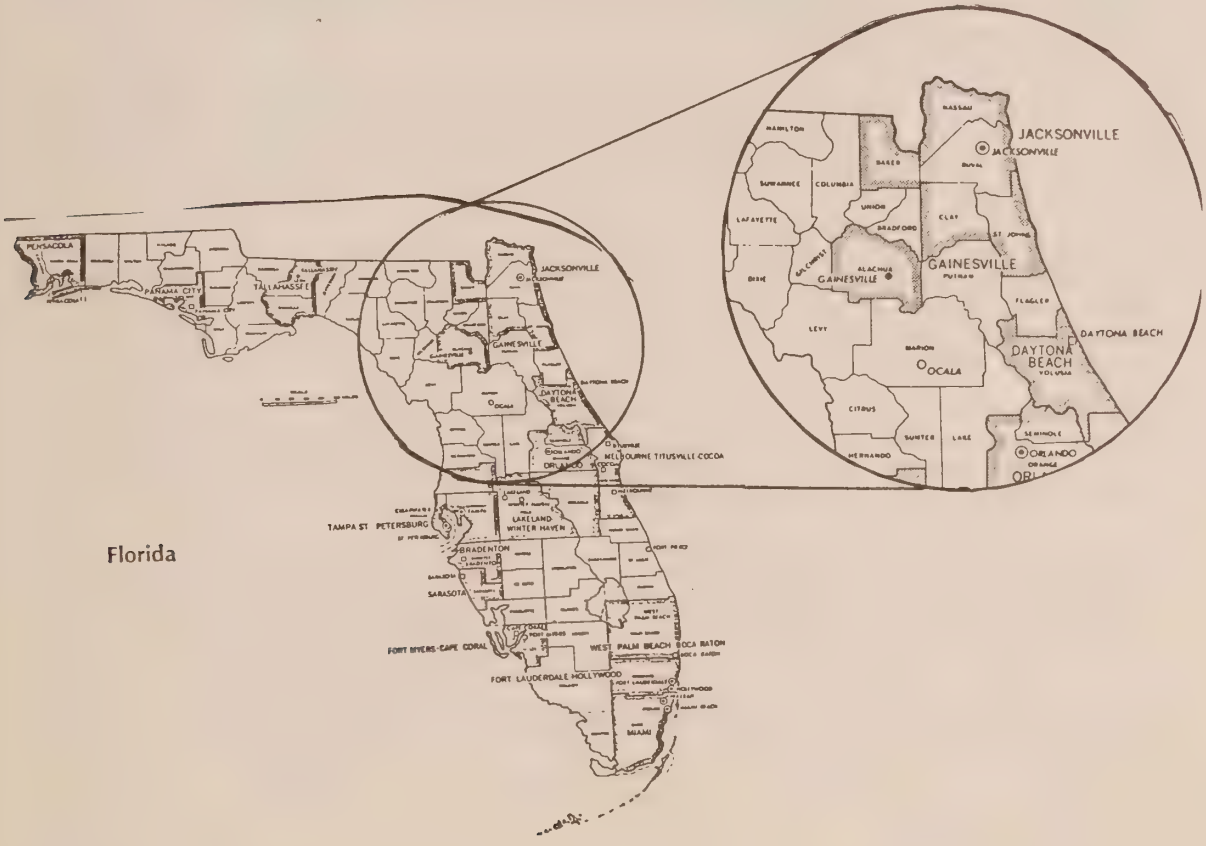
154.785	Levy County Sheriff's Office	KIF638
463.100	Levy County Ambulance Dispatch	KKR681

Gilchrist County

154.785	Gilchrist County Sheriff's Office	KII347
154.950	Gilchrist County Fire and Rescue	

154.950	**SHERIFF'S NET/ INTER-COUNTY COMMUNICATIONS**
155.370	**STATE NET/STATE WIDE**

I would like to thank **James K. Laffey** Director of Communications of Gainesville Police and Alachua County ECC and the fine professionals at the center for providing much of the information in this article. Also to you the member, keep those contributions coming in and remember to include your RCMA membership number.



Florida

PUBLIC SAFETY WEST

Send Public Safety and Special Emergency frequencies, radio system details and questions for Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming to:

George N. Hoggatt, 17473 E. 16th Dr., Aurora, CO 80011
electronic mail:<Compuserve-75376.673>, <Delphi-JORG>, <Source-BBZ812>

****

ARIZONA Kurt (CASM035)

Reference the May 86 Newsletter, Page 65, from John (IL-012) who visited Tucson and reported on what he found. I offer you the following comments. Good work John! I lived in Tucson for about one year and concur with just about everything you wrote about. Let me clear the air regarding some details and add a little more information.

1. The Pima County sheriff's Office on 155.700 is indeed for detective usage acording to my records. However, it never seemed to be a "hot" frequency worth constant monitoring.

2. The Tucson PD channel 5 is a simplex surveillance frequency used when the detectives want "extra" security. (They normally operate on Ch. 7 -- a repeater frequency and they know it!) The detectives also are known to divide themselves up and then one group uses Ch. 5 and the group Ch. 7.

3. Channel 6 is also used for back-up of Ch. 7. For some odd reason, the technicians don't seem able to figure out why Ch. 7 doesn't get quite the range as Ch. 6. It also po's detectives when they are on surveillance on ch. 6 and PD units forget they're not supposed to "crosstalk" on ch. 6.

4. Channel 8 (155.970) is very infrequently used. I only heard it active about four times. It seemed to be the detectives super-super-secret frequency and was simplex. Also, not all units were equipped to receive this frequency, from what little I was able to gather.

5. One of the frequencies which you did not ever hear traffic on, but which is licensed to Tucson PD, is for "Air-1"--the PD helicopter. It seemed to be used for the helicopter PD officer to communicate to the PD ground support folks and the helipad, but I'm not quite sure about this. (Let's here from you guys and gals in Tucson)

6. "Ten-96" is a local remark (Jargon) telling another unit to switch frequency to Ch. 6. This I'm POSITIVE on.

7. "Ten-22" is also local jargon. It means "helicopter".

COLORADO

OOPS! When I reported Stapleton Airport's new frequency I gave the wrong frequency. The one in use is 858.4875. There have been some

"kerchunks" and tests on some of the other channels too. The old police channel (453.500) has been silent so it would seem that the police are on the new system. The old operations channel (155.085) is still active as of early May.

HAWAII Harry (??)

HAWAII COUNTY

CH.	BASE	MOBILE	TYPE		COMMENTS
1	155.310	155.310	simplex	Police	Main dispatch
2	154.695	156.150	repeater	Police	Keaau South Hilo District
	154.830	?	repeater	Police	Peepeekeo-north of Hilo, Papa-south of Kona
	155.310	156.210	repeater	Police	Waimea-south Kohala District
	155.640	154.905	repeater	Police	Waimea-South Kohala District Naalehu-South of Kona
	155.610	155.610	simplex	Police	
	155.700	155.700	simplex	Police	
	156.030	156.030	simplex	Police	
10	155.4151	155.970	repeater	Police	Kailua, Kona, Laupahoehoe, North Hilo District, Honokua, Hamakua District
	155.535	?	?	Police	
	155.250	?	?	Police	
	155.760	155.760	simplex	Police	

TEN-SIGNAL CODE (courtesy Radio Shack Kuilua-Kona)

10-1 Papers
10-2 Disregard
10-10 Fight in Progress
10-11 Dog case
10-12 Report Writing at_____
10-14 Prowler Report
10-15 Civil Disturbance
10-16 Domestic
10-19 Return to _____
10-31 Crime in Progress
10-32 Man with Gun
10-36 Correct Time
10-37 Investigate Suspicious Vehicle
10-38 Stopping suspicious Vehicle (give location)
10-43 Information
10-46 Assist Motorist
10-49 Traffic Light Out At _____
10-50 ACCIDENT
10-51 Wrecker Needed
10-52 Ambulance Needed
10-55 Intoxicated Driver
10-57 HIT & RUN
10-58 Direct Traffic
10-62 Request confirmation
10-63 Prepare To Make Written Order
10-66 Message Cancellation
10-67 Clear for Net Message
10-70 Fire Alarm
10-74 Negative
10-78 Need Help Quick
10-79 Notify Coroner
10-80 Chase in Progress
10-81 Breathalyzer Needed
10-88 Advice [sic] Telephone Number of_____
10-89 Bomb Threat at_____
10-90 Bank Alarm at_____
10-92 Improperly Parked Vehicles
10-94 Drag Racing
10-95 Prisoner/subject in Custody
10-96 Mental Subject
10-97 TEST SIGNAL
10-98 Prison/Jail Break
10-99 Wanted/Stolen Indicated
Signal "2" - Call Home

Signal "4" - Meal
ed note: codes not given are the same as the APCO standard codes.

1	154.385	repeater Fire Dispatch
2	154.310	repeater
3	154.445	repeater
4	154.130	repeater fireground
5	154.205	repeater fireground

FIRE 10-CODES

10-1 In Service
10-2 Out of Service
10-3 At Scene
10-4 Acknowledged
10-5 Back in Station
10-8 Contact (call)
10-9 Repeat
10-10 Enroute

453.400	458.400	repeater Islandwide Medicom
155.865		repeater Islandwide Civil Defense
155.115		repeater Hilo Public Works

OREGON

EUGENE area Chuck (OR-015)
460.300 Eugene PD Dispatch
460.050 Eugene PD Records
460.175 Eugene, Springfield, Lane County SO common channel
154.355 Eugene-Springfield FD Dispatch TAC-1
154.265 Eugene-Springfield FD TAC-2
154.430 Eugene-Springfield, Lane County FD TAC-3
154.205 Eugene-Springfield FD TAC-4
155.340 MEDNET
460.350 Eugene PD car-to-car
154.905 Oregon State Police high band
460.225 Lane County SO Dispatch
460.425 Lane County SO Records
460.125 Springfield PD Dispatch
42.900 State Police Dispatch in Eugene
460.475 Springfield PD car to car
153.920 Springfield Public Works
460.450 University of Oregon Security
48.260 Eugene Water and Electric Board
153.650 Springfield Utilit Board (SUB)
37.900 Lane County Public Works
453.750 Eugene Public Works

COOS BAY AREA Robert (new member)
154.385 Charleston Rural Fire District
155.340 Bay Area Hospital (ambulance reports on all patients)
154.370 Douglas County Fire District 2
154.430 Coos Bay FD, North Bend FD, all fire in area
155.190 Coos County sheriff
155.685 Coos Bay Police (city)
155.010 Reedsport Police (city)
42.820 Oregon state Police Station 33
154.205 Florence Fire F2
154.070 Charleston RFD f2 (HT)
155.220 Bay Cities Ambulance base and mobile
155.805 Coos County Raod Department (not busy)
154.755 North Bend Police (city)

WASHINGTON Ron (CA-VE-013)

<1>King County Police Update
New radio numbers are now being used by traffic officers.The new numbers correspond more closely with the actual precinct numbers.
Precinct #2 - North <460.325>
Precinct #3 - Southeast <460.450>
Precinct #4 - Southwest <460.400>
Federal Way Sub Station <460.525>

SAM 20-29 -North traffic cars
SAM 30-39 -Southeast traffic cars
SAM 40-49 -Southwest traffic cars
SAM 50-59 -Federal Way traffic cars
When "TOM" is substituted for "SAM" the unit is a motorcycle traffic officer. I have also monitored the radio designation of "UNION" as a substitute for the "SAM or TOM" designations.I have notheard the old SAM 90-99 radio call designators since the new plan went into effect.I speculate that the UNION designation may have replaced SAM 90-99 unit numbers.I did monitor two UNION cars responding to a fatal accident in the North Bend area recently(UNION-20 and UNION-22).Another new radio designator that is popping up on all channels is car "731".Radio activity suggests that this is a commercial vehicle enforcement officer.The car numbers 70 thru 79 seem to be Special Operations units.The Special Operations Section consists of O.E.S. and Tactical Operations.They are further broken down into the following units:

O.E.S. -Emergency Planning
-Marine Unit
-Canine <K-9>
-Search and Rescue

Tactical Operations
-Traffic Unit
-Bomb Disposal
-TAC 30 <S.W.A.T.>

Verified information is that "Car-72" is a Special Operations lieutenant.

<2>New unit numbers for fire districts dispatched by "Control-10"
Recent monitoring also indicates that fire units/districts dispatched by CONTROL-10<Fire district #10>have changed to a more simplified radio call sign plan.I have made the following observations regarding these changes:

Station #151 - North Bend Fire Dept.
Station #171 - Snoqualmie Fire Dept.
Station #135 - Carnation Fire Dept.
Station #145 - *unidentified*
<possibly Fall City or Duvall>

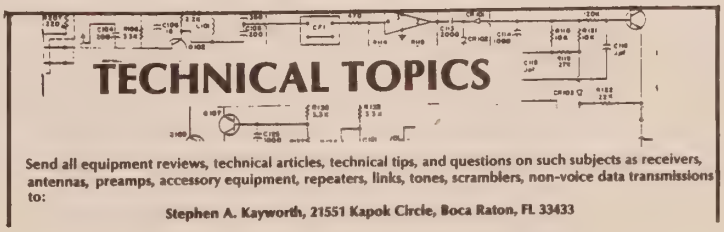
<3>Kirkland Police
The Kirkland Police Dept. is now using 460.050 for primary operations. Previously,Kirkland shared a radio channel with Redmond Police on 453.650.

<4>Bellevue Police
F1-453.450<r> Dispatch
F2-453.725<r> Records
F3-453.975<r> *unknown use* <Bothell Police primary>
F4-453.050<r> car to car

"BOY" -Bellevue Plice units
"Mary" -Medina Police units
"Charlie" -Clyde Hill Police units

<5>METRO Transit <Seattle-King County>
Channel 1 -452.650<r> "Coordinator"
Channel 2 -452.725<r> "Control"
Channel 3 -453.375<r>
Channel 4 -453.525<r>
Channel 5 -452.800<r> "Supervisors"

NO COLUMN THIS MONTH


TECHNICAL TOPICS
Send all equipment reviews, technical articles, technical tips, and questions on such subjects as receivers, antennas, preamps, accessory equipment, repeaters, links, tones, scramblers, non-voice data transmissions to:
Stephen A. Kayworth, 21551 Kapok Circle, Boca Raton, FL 33433

PUBLIC SAFETY—CALIFORNIA

P.O. Box 3962 Santa Fe Springs, California 90670-1962

An article dated 04-07-86 reported the loss of the telephone system to the West End [San Bernardino] Fire Dispatch Center. The loss of the telephone system included the 911 Emergency lines. A spokeswoman from GTE stated that water runoff from recent rains, had entered into a manhole, where telephone cables were located. The Ontario Fire Department [also affected by the outage] utilized the services of the law enforcement agencies to relay information through 2 "obscure phone lines" that were not affected. The fire alarm system was also placed out of commission, but the department "...switched to a radio-operated system..."

"Riverside County's airwaves are as jammed as a rush-hour freeway" explained an article, dated 04-05-86. The Riverside County Grand Jury recently released an investigation detailing the problems of the current communications systems. The Grand Jury wants the FCC to allocate additional frequencies to the County, and has joined other local agencies in lobbying the FCC for more frequencies. The FCC is expected to allocate some of the frequencies from the block of UHF-TV frequencies recently allowed to the LA Sheriff. However, county officals cite population and crime growth as the reason for the request for more frequencies.

The Covina and West Covina Fire Departments will merge into one. A 2 year study and debate finally ended on 02-26-86 with the final approval of the Covina City Council. Both cities have agreed to to operate for 3 years, and can withdraw from the merger at that time. No date has been announced for the start of the merger.

The West Covina Police Department will soon house a branch of the statewide computerized fingerprint system that was credited with assisting in the capture of the "Night Stalker" killer. The city was selected with the Cities of Long Beach, Torrance, and Santa Monica, to be regional brances for this system. The system can be used to identify print comparisons in only 12 minutes as opposed to manually search for comparisons. Officals are seeking 2 more regional sites to serve as branches in LA County.

The Department of Motor Vehicles investigators are now on the State Police frequencies with call signs such as 11V316. The DMV investigators can be heard in Southern California on 460.375 Mhz.

A correction should be made on the "Radio Watch" program of the Suburban Water Company. The correct freq should be 48.260 Mhz not 48.340 Mhz [this freq hasn't been used in 5 years]. Repeater mode is on 47.820 Mhz. [Oops]

LA County Fire is re-designating their UHF channels. "Valley" [154.340 Mhz] is now assigned the following UHF assignments:

U- 5 470.6625 R [formerly U-12]
U- 6 470.4125 R [formerly U- 2]
U- 7 470.4625 R [formerly U- 4]
U-11 470.5875 R [formerly U- 9]

Depending on which UHF channel is used, dispatch calls are heard simulcasted with the VHF freq. The UHF channels are now used for condition reports when firefighters are away from their rigs.

West Covina Fire is now on 156.165 Mhz. The fire department has abandoned the UHF freq [506.5125 Mhz] which is now being used by West Covina PD as a secondary channel. With the proposed merger with Covina Fire, it is unknown if other changes will be made. It should also be noted that 506.4875 Mhz is exclusively used by the West Covina Public Works Department.

From Fred [ ]: Reports that CHP Bridgeport has changed the calls slightly as the Bridgeport beats used to be 1-5 and are now 20-25. Fred shows the system as follows:

71-10,11	Walker [108 to Stateline]
71-20,21,22,23	Bridgeport [108 to 167]
71-30	June Lake [167 to Crestview]
71-41,42	Mammoth [Crestview to South County Line]
71-D1	Detail officer [tow truck regulator, public info, etc.]
71-G1	Mechanic
71-L	Commander
71-S1	South area Sergeant
71-S2	North area Sergeant

Fred also reports that as of 07-01-85, the new town of Mammoth Lakes has now hired a Police Chief and is forming the Mammoth Lake PD. The county contract will expire by 06-30-86. This will eliminate 1/2 of the Mono Sheriff's Department. The existing Mono SO has 25 deputies, and this will be reduced to 12-14. He also states the Mammoth Sheriff sub-station may close. Mammoth Lakes PD has applied for 155.595 Mhz, but at this point Fred doesn't know where the transmitter will be located.

From Bill [CALA614]: Bill has enclosed a copy of the LA Sheriff's radio codes from a training aid. Since many of the 10 Codes are similar to the APCO Signal List-see beginning of the Public Safety section-only those 10 Codes that are different will be listed. At the top of the list is this infamous wording: "If you cannot think of the proper code, speak in english, and the message will be relayed."

TEN 11 Dispatching too fast TEN 15 Prisoner in custody
TEN 16 Pick up prisoner TEN 17 Pick up papers
TEN 19 Return to station TEN 23 Stand by
TEN 27 Any return on number or subject?
TEN 29F Subject is wanted for a felony. Use caution, advise when subject is in custody and you are ready for crime info.
TEN 29D Subject is wanted and is considered dangerous; use extreme caution. Advise when in custody and ready for information
TEN 29FD Subject is wanted for a felony. Considered armed and dangerous; use extreme caution. Advise when in custody & ready for information.
TEN 29M Subject is wanted for misdemeanor crimes.
TEN 29T Subject is wanted on traffic warrant(s): arrest subject; warrant abstracts are being sent to your station or the warrant is at your station.
TEN 29V Property reported stolen. Do you have subjects? Advise when ready for information.
TEN 29W Confidential information regarding your subject; remove the subject from hearing range of radio and advise when ready for information.
TEN 31 Request unit and frequency for car-to-car communications [freqs: Charlie, Henry, Edward, Nora, William, Adam]
TEN 34 Request routine clearance
TEN 36 Correct time TEN 37 Identify operator on duty
TEN 38 Request clearance to run TEN 39 Request to clear call subject(s) TEN 97 Arrived at scene TEN 98 Finished last assignment

The LA Sheriff uses [in addition to Penal Codes and Vehcile Codes] a 900 series codes as follows:

901 N Ambulance needed
901 S Ambulance dispatched - sick or injured
901 T Ambulance disptached - traffic collision
902 Person sick or injured
902 A Attempted suicide
902 H Enroute to hospital
902 N Traffic collision - no details
902 R Rescue responding
903 Airplane accident - no details
903 L Low-flying aircraft
904 Fire
904 A Fire in auto
904 B Fire - brush or grass
904 S Smoke investigation
904 I Illegal fire
904 S Structure fire
904 T Trash fire
905 B Animal bites
905 D Dead animal
905 N Noisy animal
905 S Stray animal
905 V Vicious animal
909 A Hot wires down
909 T Traffic Hazard
911 A Contact informant
911 B Contact officer
911 C Contact citizen
911 N Do not contact informant
912 Are we clear?
913 You are clear
914 N Concerned party notified
916 Officer holding misdemeanor suspect
916 A Officer holding felony suspect
916 B Citizen holding misdemeanor suspect
916 C Citizen holding felong suspect
917 A Abandoned auto
917 S Suspicious auto
918 Insane person
918 V Violently insane person
919 Keep the peace
920 Missing adult
920 A Found adult
920 C Missing child
920 F Found child
921 Prowler
921 P Peeping tom
922 Illegal peddling
923 Illegal shooting
924 Station detail
924 B Notify our station
924 M Messenger service detail
925 Person acting suspiciously
925 A Person acting suspiciously in auto
926 Tow truck needed
926 A Tow truck dispatched
927 Suspicious circumstances
927 A Suspicious circumstances - person pulled from phone
927 B Suspicious circumstances - open door or window
927 C Check vicinity
927 D Suspicious circumstances - possible dead body
927 H Suspicious circumstances - person hung up phone
927 S Suspicious circumstances - woman screaming
928 Found property
928 B Found property - bicycle
928 L Lost property
929 Person down
929 A Person down in auto
930 See the man

930 A See the manager
931 See the woman
995 Strike trouble
996 Explosion, non criminal
996 B Bomb explosion
996 T Bomb threat
997 OFFICER NEEDS HELP URGENTLY - DISTRICT CARS ONLY (5 UNITS WITH SHORTEST ETA TO RESPOND)
998 OFFICER REQUESTING ASSISTANCE, INVOLVED IN SHOOTING
999 OFFICER NEEDS HELP URGENTLY

LA Sheriff also uses the following standard codes:

CODE 1 Acknowledge receipt of message
CODE 3 Emergency, use red lights and siren
CODE 4 No further assistance needed
CODE 4A No further assistance needed at location - suspect at large in area - field units continue to respond - information to follow
CODE 5 Stake out. All units stay away unless emergency or response to a call
CODE 6 Out for investigation
CODE 7 Out of service to eat
CODE 8 Fire alarm
CODE 9 One-man unit out for investigation
CODE 14 Resume normal operations
CODE 20 Unit requests press be notified of newsworthy incident
CODE 77 Use caution, possible ambush

To round out this edition of PS-CA is a copy of Caltrans' 800 Mhz radio system [channel selector guide] for District 7 ⟶

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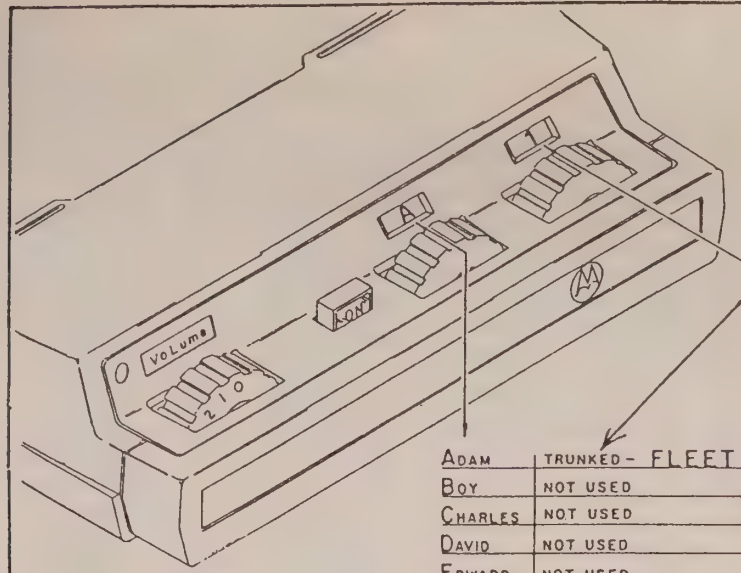


FLEET A
CH. ADAM

ADAM	TRUNKED - FLEET A	1	ORANGE
BOY	NOT USED	2	VENTURA
CHARLES	NOT USED	3	NEWHALL
DAVID	NOT USED	4	EASTERN
EDWARD	NOT USED	5	WESTBEACH
FRANK	NOT USED	6	FOOTHILL
GEORGE	CAR TO CAR	7	METRO
HENRY	ROLLING HILLS & HAUSER	8	ELECTRICAL
IDA	JOHNSTONE	9	SPEC. CREWS
JOHN	LUKENS & WATERHOLE	10	MECHANICS
KING	TEJON & CASTRO	11	TRAFFIC OPS.
LINCOLN	SOUTH	12	DIST. OFFICE
MARY	SISAR	13	
NORA	RED	14	
OCEAN	SIERRA	15	DISPATCH
PAUL	CONSTRUCTION	16	DISPATCH

TRUNKED CHANNELS (Pos. A)

Tx/Rx

811.7375/856.7375 (Data)
815.7375/860.7375
814.9875/859.9875
813.7375/858.7375
812.9875/857.9875

Tx/Rx	PL
856.9875/856.9875	1
812.7375/857.7375	2
815.9875/860.9875	2
813.9875/858.9875	1
813.7375/858.7375	1
812.9875/857.9875	1
815.7375/860.7375	1
815.9875/960.9875	1
811.9875/856.9875	2
814.7375/859.7375	1

PL Freqs
1 110.9 Hz
2 123.0 Hz
3 131.8 Hz
4 136.5 Hz

(S)B-756350-028-A

REV.	DATE	DESCRIPTION	APPD.

TABLE OF CHANGES

KNOR. MC
DR. BA
CH.
APPD.
DATE 8-85
SCALE

CALTRANS DISTRICT 07
CHANNEL SELECTOR
GUIDE

STATE OF CALIFORNIA
OFFICE OF TELECOMMUNICATIONS
SACRAMENTO, CALIFORNIA

UNIT DOT
SUPERSEDES
SUPERSEDED BY
SHEET NO.
DRAWING NUMBER
B-756350-028-A

RAILROADS

Gary L. Sturm and
Bill Farmer, Editors

Send information about railroad frequencies and their uses, railroad radio system details, and related questions to:

Bill Farmer, P.O. Box 1838, Thousand Oaks, CA 91360

We received several letters from members this month and we appreciate the efforts of all who wrote. We even got one from across the sea! Thanks to Carl Gerosa (NY-117) for sending a copy of a Metro-North Commuter Railroad pamphlet which has a map of their system and a description of the type M-2 electric commuter cars they operate. These cars are capable of operating from two different power sources: 700 volts d.c. picked up from a third rail, or 11,000 volts a.c. picked up from overhead catenary. They are used primarily on the New Haven line.

A special thanks to John Henry Hart (PA-019) for an excellent profile of Southeastern Pennsylvania Transportation Authority's radio system, including the new UHF channels. We wish we could have a report this good every month.

Along with the contributions came some questions. Kevin O'Rourke (IL-274) refers to the article in our May column about talking detectors on the Chicago & North Western, and asks what frequency they transmit on. In that article we neglected to mention that detectors always transmit on the railroad's road channel, which in the case of C&NW is 160.890 MHz.

New member Mike Taylor (NY-310) would like to start listening to railroads and asks for frequencies in the area of Hammond, NY near the Canadian border. According to our maps, there is no railroad running through Hammond, but there is a Conrail line which runs northeast from Watertown through Gouverneur to Massena, with a branch from De Kalb Jct. to Ogdensburg. Conrail has two road channels, 160.800 and 161.070, and we would suggest starting with those, Mike. Due to your proximity to Lake Ontario, you might even pick up Conrail transmissions from their main line between Rochester and Syracuse.

Ontario Midland at Sodus, NY and Ontario Central at Shortsville, NY are shortlines. They are both operated by the same company and both use 161.370 MHz.

Much more active in Mike's area will be the channels of Canadian National, since their main line between Toronto and Montreal is just across the river. CP Rail should also be heard since their main line is not too much farther north and they have branches to Kingston and Brockville, which are just across the river.

CANADIAN NATIONAL

161.415	Ch 1	Road
161.205	Ch 2	Dispatcher
160.935	Ch 3	Dispatcher
160.665	Ch 4	Yard
160.365	Ch 5	General Terminal
161.295/160.485	Ch 6	Dispatcher & Yard
160.455/159.810	Ch 7	Dispatcher & Yard
161.025	Ch 8	Yard
160.785	MW1	Maintenance of Way
160.905		Police
46.30		Police

CANADIAN PACIFIC (CP RAIL)

161.475	Ch 1	Road
161.475/161.535	Ch 2	Dispatcher
161.475/160.425	Ch 3	Dispatcher
161.115	Ch 4	Road
161.325	Ch 5	Yard
161.175		Maintenance of Way

We hope this gives you a good start, Mike—let us know which channels are active in your area and what you hear on them.

SOUTHEASTERN PENNSYLVANIA TRANSPORTATION AUTHORITY (SEPTA)

by JOHN HENRY HART (PA-019)

SEPTA is the mass transit operator for the Philadelphia area. It is an independent entity which receives tax support.

City Transit Division (CTD) operates a fleet of buses, trolley cars, trackless trolley coaches [electric buses powered from overhead wires], and subway/elevated trains. Walkie-talkies are issued to trolley car operators.

SEPTA—CITY TRANSIT DIVISION

	Ch 1	Not assigned
502.4875/505.4875	Ch 2	Buses & trackless coaches
502.5125/505.5125	Ch 3	Buses & trackless coaches
502.5375/505.5375	Ch 4	Buses & trackless coaches
502.5625/505.5625	Ch 5	Buses & trackless coaches
502.5875/505.5875	Ch 6	Buses & trackless coaches
502.6125	Ch 7	Trolley cars-eastern & southern areas
502.6375	Ch 8	Telemetry-no voice
502.6625/505.6625	Ch 9	Supervisors-central, south & western areas
502.6875	Ch 10	Transit police
502.7125	Ch 11	Subway/elevated supervisors & trains
502.7375/505.7375	Ch 12	Buses & trackless coaches
502.7625	Ch 13	Transit police
502.7875/505.7875	Ch 14	Supervisors-northern area
504.1375	Ch 15	Supervisors car to car

[Second frequency of each pair is mobile transmit frequency for repeater and duplex channels-ed.]

Subway trains are picked up by receivers in the tunnels. Trolley cars in the center city rail tunnel and in West Philadelphia use carrier telephones like railroad trains once did.

Bus drivers, before leaving a depot, must "program" their route and block numbers into their radios. If a driver wishes to contact the control center, he depresses a "request to talk" button on the control head. The radio automatically selects a vacant channel. His route and block number appear on a CRT at the dispatcher's console. At the dispatcher's discretion, the bus radio will either automatically, or by dispatcher control, be placed on a channel best suited for clear reception. After that, voice contact is made. Bus channels are duplex, and repeaters are not normally used. If a driver has an emergency, he can depress an emergency button. This sounds an alarm to the dispatcher, and a priority is given to the call. If no voice contact is made, the dispatcher uses a computer to determine the most probable location of the bus. This is based on the schedule of the bus line. Once this is done, police and a supervisor are sent looking for the bus. Contrary to previous reports, channel assignments for buses are not based on routes or depots.

For supervision, there is a controller for each area of the city. Each depot dispatcher has a radio. Other controllers include power dispatcher, train dispatcher(subway/elevated), storm center (snow storms), and chief controller. Maintenance crews use 31.10 and 31.14 MHz.

CTD supervisors have a lengthy list of codes. It rarely is necessary to know them, because the nature of the problem is usually evident from the conversation. Supervisors' cars are GMC jeep-type cars. They contain Motorola 12-channel radios. They have Converta-Coms, which are portables which can be inserted into the car radio. The car radio charges the portable battery.

Suburban Transit Division (STD) of SEPTA serves an area outside the city in Montgomery, Chester, and Delaware Counties of Pennsylvania. They operate buses and trolley cars. The Suburban Division is sometimes referred to as the Red Arrow and/or Philadelphia & Western because those were the names of private operators prior to their inclusion into the SEPTA system. The buses use the same channels as

the City Division. Trolley cars, supervisors and maintenance crews operate on 30.89 and 30.98 MHz.

SEPTA also operates several railroad lines. Some of the trackage is exclusively SEPTA [former Reading Railroad suburban lines], but they also have trackage rights on Conrail and Amtrak lines. Primarily, trains use 160.350. Maintenance operations are on 160.935. SEPTA is also heard on 160.800 which is Road #1 for Conrail and Amtrak.

Any member wishing further details about SEPTA may contact me through the editor.

TONAWANDA, NEW YORK

by DAVID DALLESSANDRO (NY-340)

CONRAIL

160.800	Ch 1 Road
161.070	Ch 2 Road
161.220	Police
160.560	Special Agents
161.130	Maintenance
160.860	Hump yards
160.980	Yard

AMTRAK

160.800	Ch 1 Road
161.070	Ch 2 Road
160.515	Ch 3 Communications
160.635	Ch 4 Maintenance
161.205	Ch 5 Police
161.295	Ch 6 Police

CHESSIE SYSTEM

160.230	Ch 1 Road
160.320	Ch 2 Road
160.530	Ch 3 Yard
161.295	Police

SOUTH BUFFALO

161.190
161.280

MISCELLANEOUS FREQUENCY NEWS

by GARY L. STURM (IN-045)

Santa Fe changed the frequency of its Corwith Yard channel in Chicago from 160.860 to 160.995. Conrail is now using 160.860 (Ch. 3) as a yard channel at two pig yards in Chicago.

SEABOARD SYSTEM, Louisville, KY

161.370	Road & Dispatcher to Train
161.520	Train to Dispatcher
160.260	Yard
160.620	Car Department
161.280	Yard

GULF & MISSISSIPPI

161.085	General Operations

SOO LINE GETS NEW RADIOS

info from TOM HEIDERER (WI-006)

The railroad's fleet of 3,000-horsepower locomotives are getting new 97-channel radios, enabling them to receive all the VHF railroad frequencies in North America. In addition to making the units compatible with radio systems which had been used by Soo and Milwaukee Road, locomotives can now be used in run-through operations with other railroads more easily.

SOUTHERN PACIFIC HAZARDOUS MATERIALS UNITS

by CLIFF POLKINGHORN (CA-AL-029)

I recently saw an SP haz mat vehicle (such as it was). Its radio has four channels:

161.550	Ch 1 Road
161.400	Ch 2 Police
160.890	Ch 3 PBX
160.950	Ch 4 PBX

Identifier for the unit is HM-1 (very original!) Haz Mat units are manned by one person. Locations of these units are as follows:

Portland, OR	1 unit
Sacramento, CA	1 unit
San Francisco, CA	1 unit
Los Angeles, CA	1 unit
Houston, TX	2 units
Lafayette, LA	1 unit
Pine Bluff, AR	1 unit

BRITISH RAIL

by GEOFF HALLIGEY (ENGL-005)

Our nearest city is Hull (4 miles) and it's the terminus of a branch line from the main London-Edinburgh east coast route. It is therefore not all that busy. However, there is a local control centre there and I have picked up a couple of freqs: 453.550 and 453.775. They both seem to be used for the same thing—announcing to the platform staff lateness of trains (never any early!), allocation of platforms, starting delays due to breakdowns or awaiting a connecting train, etc.

Another one that someone sent me is 76.725, which is the Euston terminus in London of the west coast route to Glasgow (exact purpose unknown).

VHF MARINE

Send information, articles, frequencies and their use, and questions that relate to private, commerical, and Coast Guard VHF maritime and inland waterways radio communications to:

Emmett L. Baxter, Jr., 4122 Granby St., Norfolk, VA 23504

Hello and welcome to your July 1986 VHF Marine Cloumn.

Our first report comes from Rick (CA-LA-544). Rick sends us an excellent marine frequency list for Southern California.

A & A Oil Tool and Service Co. - Long Beach
WHU-391 - 156.550,156.700,156.800
Admiralty Group Inc. - Long Beach
WHV-600 - 156.400,156.800,156.925,157.100
Almar Ltd. - Ventura/San Diego
WRV-563 - 156.425,156.450,156.600,156.800
California Marine Engineering - Marina Del Ray
WRV-380 - 156.425,156.600,156.800,156.975
Catalina Marine Repair - Santa Barbara
KA-97362 - 156.425,156.800
Channel Island Boatworks - Oxnard
WHU-736 - 156.450,156.800
Commercial Marine Agency - San Pedro
KOC-112 - 156.500,156.800
Greenpeace Foundation of America - Los Angeles
KMC-237 - 156.350,156.425,156.800
Gulf Oil Company Inc. - Ventura
KF-8975 - 156.325,156.975
Pacific Mariners Yacht Club - Marina Del Rey
WQX-621 - 156.450,156.800
Marine Express Company - Los Angeles
WHV-480 - 156.450,156.500

Pacific Towboat & Salvage Company - San Pedro
KMB-270 - 156.800,156.950
KS-9853 - 156.000,156.275
Santa Monica Yacht Club - Marina Del Rey
WHU-822 - 156.575,156.800
Sea World Inc. - San Diego
WHV-761 - 156.350,156.800
Todd Shipyard Corporation - San Pedro
WHD-877 - 156.800
U.S. Water Taxi Service - San Pedro
WQZ-311 - 156.450
Western Boat Operators - Santa Barbara
WHG-638 - 156.800,156.900

Thanks to Rick and I hope that we will hear from him real soon with more Southern California VHF Marine Frequencies.

Our next report comes from Ed (MA-017). His report is a follow-up on an earlier column about the Coast Guard in the Maine-Massachusetts area.

The majority of the non VHF Marine Frequencies used by the USCG in New England (and probably elsewhere in the USA) are used for linking remote transmitter sites to USCG Stations, and security or maintenance operations at USCG Stations or bases. I have found thia out by monitoring these frequencies as well as information from IRAC Microfiche files (all verified data).

Our next report comes from Mark (Va.-051). Marks states that he has not heard CG Group Baltimore's "Marine Information Broadcast" on Channel 22. He used the times in the March 1986 column. I have checked the times and they are still listed.My suggestion is that the times were listed in "Greenwich Mean Time" which is four hours ahead of our (DST) time. So if the time is 0130 GMT then it would be 930 P.M. at night in Baltimore and 1205 GMT would be 805 A.M.(DST).

I have included the following list to help you since most CG listings are in GMT Time.

Greenwich Mean Time	Eastern Standard Time	Daylight Savings Time
0000 GMT (12 A.M.)	1900 EST (7 P.M.)	2000 DST (8 P.M.)
0100 GMT (1 A.M.)	2000 EST (8 P.M.)	2100 DST (9 P.M.)
0200 GMT (2 A.M.)	2100 EST (9 P.M.)	2200 DST (10 P.M.)
0300 GMT (3 A.M.)	2200 EST (10 P.M.)	2300 DST (11 P.M.)
0400 GMT (4 A.M.)	2300 EST (11 P.M.)	2400 DST (12 A.M.)
0500 GMT (5 A.M.)	2400 EST (12 A.M.)	0100 DST (1 A.M.)
0600 GMT (6 A.M.)	0100 EST (1 A.M.)	0200 DST (2 A.M.)
0700 GMT (7 A.M.)	0200 EST (2 A.M.)	0300 DST (3 A.M.)
0800 GMT (8 A.M.)	0300 EST (3 A.M.)	0400 DST (4 A.M.)
0900 GMT (9 A.M.)	0400 EST (4 A.M.)	0500 DST (5 A.M.)
1000 GMT (10 A.M.)	0500 EST (5 A.M.)	0600 DST (6 A.M.)
1100 GMT (11 A.M.)	0600 EST (6 A.M.)	0700 DST (7 A.M.)
1200 GMT (12 P.M.)	0700 EST (7 A.M.)	0800 DST (8 A.M.)
1300 GMT (1 P.M.)	0800 EST (8 A.M.)	0900 DST (9 A.M.)
1400 GMT (2 P.M.)	0900 EST (9 A.M.)	1000 DST (10 A.M.)
1500 GMT (3 P.M.)	1000 EST (10 A.M.)	1100 DST (11 A.M.)
1600 GMT (4 P.M.)	1100 EST (11 A.M.)	1200 DST (12 P.M.)
1700 GMT (5 P.M.)	1200 EST (12 P.M.)	1300 DST (1 P.M.)
1800 GMT (6 P.M.)	1300 EST (1 P.M.)	1400 DST (2 P.M.)
1900 GMT (7 P.M.)	1400 EST (2 P.M.)	1500 DST (3 P.M.)
2000 GMT (8 P.M.)	1500 EST (3 P.M.)	1600 DST (4 P.M.)
2100 GMT (9 P.M.)	1600 EST (4 P.M.)	1700 DST (5 P.M.)
2200 GMT (10 P.M.)	1700 EST (5 P.M.)	1800 DST (6 P.M.)
2300 GMT (11 P.M.)	1800 EST (6 P.M.)	1900 DST (7 P.M.)

Our next report comes from Dick (Ma.-071). He sent in a copy of a magazine called "OFFSHORE",March 1986 copy.This magazine covers the New England boating area.

The magazine has an article on Coast Guard Medivacs and on the First Coast Guard District Rescue Cordination Center Boston,Ma. and it's operation.Also it has an article on "OPERATION SAIL 1986".

July 4,1986 marks the grand reopening of the Statue of Liberty.To herald this occasion New York will host "Operation Sail 1986". The

list of vessels reads like a who's-who's of maritime legends. The Coast Guard will have it's famous training bark "Eagle".The Navy will be on hand with the aircraft carrier "John F. Kennedy" and the battleship "Iowa",which also will host President Reagan.The Queen Elizabeth II has been chartered to hold many of the higher ranking guests and dignitaries attending the festival.

The Coast Guard will be hard pressed to control all of the vessels and their movements. It is estimated that their will be over 300 Coast Guard and Coast Guard Auxiliary vessels to police the spectator fleet. The Coast Guard will also have a monitoring team in the Good Year Blimp to help.

The event will start with the parade of tall ships and other vessels.

All Coast Guard Radio Channels and many other Government Radio Channels will be in use. Anybody with a hand held programmable scanner will have a field day especially in the search mode.

The following is a list of what I have verified in the New England on non-VHF Marine USCG Frequencies.

164.300 - Data Link between Portland Head Light,Me. and Ram Island Light,Me.
164.550 - USCG Aircraft Comms (FM) Cape Cod area
165.3125 - Voice link from Portsmouth,NH to Whitehead Light Light,NH
165.3125 - Voice/Data link from SW Harbor CG Station to Great Duck Island,Me.
169.600 - Repeater for 156.800 Mhz at Cadillac Mtn,Me. receiver site to USCG Station Southwest Harbor,Me.
171.2375 - Security and maintenance USCG Academy New London,Ct.
171.2375 - Voice Link from Whitehead Light,NH to Portsmouth,NH
171.3125 - Input to 172.300 repeater
171.3625 - Voice/Data link from Great Duck Island,Me.to Southwest Harbor CG Station
172.300 - Intelligence/Security net Boston,Ma. - RPT OUT -
407.625 - Data link to various light stations from Falmouth,Me. and Jonesport,Me.
409.000 - Transmitter uplink for 156.800 transmitter from SW Harbor CG Station to Cadillac Mtn. transmitter site Me.
415.825 - Maintenance data/voice link from CG Station SW Harbor,Me. to Egg Rock Light and Mt. Desert Light,Me.
419.125 - Security at Boston,Ma. (Low Power)

I hope this information helps in answering some questions that were raised in the discussion of CG Communications in District 1 +ED++I would like to thank Ed for his corrections and additions to the previous column and I hope that we will hear from him some more.

RCMA NEW MEMBERS LIST

CALA650 - BRAD THOMPSON;2086 N BEVERLY GLEN BLVD;LOS ANGELES;CA;90077
CALA651 - MICHAEL MULLIGAN;16634 BLACKHAWK ST;GRANDADA HILLS;CA;91344
CARI059 - RUDY MARTINS;214 KAVENDISH DR WEST;RANCHO MIRAGE;CA;92270
CO 052 - JOSEPH BROCKWAY;6160 BROOKS DR;ARVADDA;CO;80004
FL 213 - DARLENE MOORE;6901 JOHNSON ST APT C-9;HOLLYWOODD;FL;33024
FL 214 - PAUL ODOM;14526 DIPLOMAT DR;TAMPA;FL;33613
IN 092 - WALTER DEAN FOUTCH;125 GREGORY DR;PENDLETON;IN;46064
KS 038 - WILLIAM KELLER;2601 W 70TH ST;SHAWNEE MISSION;KS;66208
MD 118 - MRS LINDA KIRBY;426 HORNEL ST;BALTIMORE;MD;21224
MI 170 - BOB KAUL;5857 HUNTER RD;BEAVERTON;MI;48612
NB 015 - ROGER HANSON;1620 NEMAHA;LINCOLN;NE;68502
NC 070 - RAY VAN PRICE;3457 WALKUP AVE;MUNROE;NC;28110
NJ 211 - ROBERT KANADY;22 S.BROADWAY;GLOUCESTER CITY;NJ;08030
NJ 212 - JOHN --LAST NAME AND ADDRESS WITHELD BY REQUEST
NY 349 - JOHN --LAST NAME AND ADDRESS WITHELD BY REQUEST
NY 350 - A.C. EPPERS JR;19 HAMILTON AVE;NORTH BABYLON;NY;11703
NY 351 - BRADLEY WANIK;RD 2 BOX 252;BROADALBIN;NY;12025
PA 227 - R.W. --LAST NAME AND ADDRESS WITHELD BY REQUEST
RI 027 - CARL W. --LAST NAME AND ADDRESS WITHELD BY REQUEST
SC 028 - JACK LEHMAN;8009 EBERLY AVE;N CHARLESTON;SC;29418
SWED004 - GURNER MARTENSSON;BOX 41 S-29037;ARKELSTORP SWEDEN;;
TN 035 - MICHAEL --LAST NAME AND ADDRESS WITHELD BY REQUEST
TN 036 - JOHN C. FULGHUM;4211 12TH AVE;CHATTANOOGA;TN;37407
TX 177 - RAYMOND LEVERETT;RT 6 BOS 6397;PEARLAND;TX;77584
TX 178 - ALLAN --LAST NAME AND ADDRESS WITHELD BY REQUEST
WI 085 - DAN --LAST NAME AND ADDRESS WITHELD BY REQUEST

MEMBERSHIP CARDS AND BADGES

RCMA has no badges, decals, or membership cards for sale or distribution. The label on your newsletter is your membership card. While other clubs may have gimmicks or commercial good deals, our 'good deal' is your newsletter. You determine its content because you write it.

MAILING PROCEDURES

The newsletter mailed each month has a cover date for the following month. This practice is followed so that the US Post Office can deliver your issue no later than the first of the month designated on the cover.

New members whose applications are received before the end of the month will begin receiving the newsletter the following month. The first issue will be dated the month after that — as described above.

RENEWAL PROCEDURES

During the month your membership — and therefore your newsletter delivery — is due to expire, you will receive a renewal notice in the form of a postcard. It contains all the information you need to continue receiving the newsletter.

Renewal checks and new membership applications received by RCMA's General Manager, P.O. Box 542, Silverado, CA 92676, are processed for deposit on a weekly basis. Actual computer updating is done at the end of each month. If your check/MO is received after this cut-off date, you will miss the next issue of the newsletter and your new renewal date will be moved back accordingly.

PRORATED MEMBERSHIPS

Due to postage costs and other considerations, membership applications or renewals for any sum less than the current rate are prorated accordingly. This means that the renewal date will be due in less than a year. Please do not send more money to finish the year; just renew when your prorated date comes up.

Also because of postage costs, RCMA cannot comply with member requests to supply back issues free of additional charge (see the monthly Calendar section regarding ordering of back issues). If a late renewal results in a missed issue, the newsletter can be ordered from RCMA's secretary.

ADDRESS CHANGES

MEMBER notifications of address changes are also updated at the end of each month. If this type of address change notice arrives after the cut-off date, the mailing label will not reflect the new address until the following month.

The newsletter is mailed 3rd class under a bulk mail permit. When a member's address change is supplied by the POST OFFICE (instead of by the member), the charge to the club is 30¢.

SPECIAL FREQUENCY REQUESTS

Get in touch with your local RCMA group (see monthly Calendar section for chapter listings) or use the Contact/Information Wanted column for frequencies in your area. RCMA is not yet set up for national distribution of frequencies, although ultimately, the 'big picture' could include copies of the FCC and IRAC data bases, a fast computer, and software to select and sort in any order.

Contributions of frequencies and other material must be sent to the appropriate newsletter editor. (Editors use their own discretion in printing material sent them by non-members.) Data sent to P.O. Box 4563 is always subject to delay and sometimes cannot be forwarded because of postage costs.

DISCLAIMER

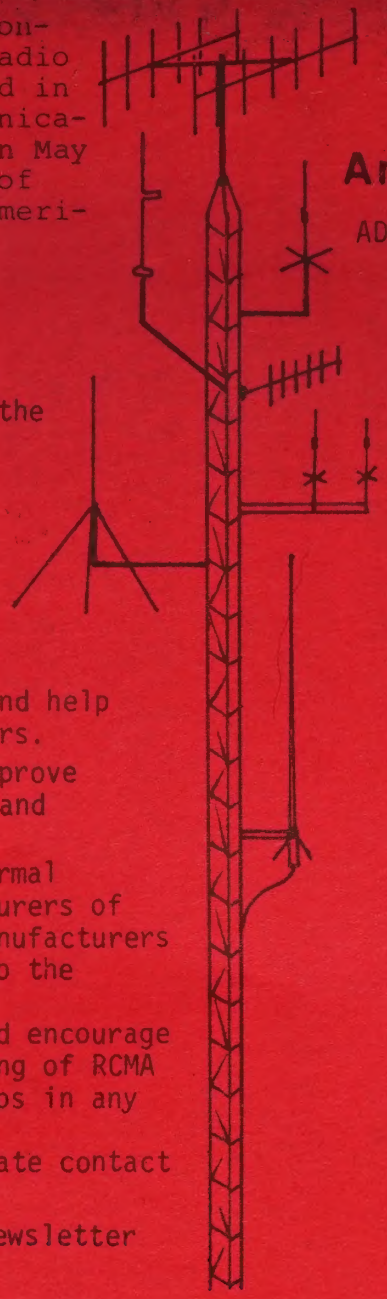
RCMA is a non-profit club for scanner enthusiasts. Neither RCMA or its newsletter are affiliated with, participate in the management of, or are responsible for, any other organization or publication. This disclaimer includes application to POLICE CALL, an annual publication put out by RCMA's good friend Gene Hughes. Queries about this publication cannot be answered by RCMA.

PLEASE REMEMBER — When writing to RCMA for any reason, include your membership number. Use it on your correspondence, checks, or money orders. RCMA tries hard to be responsive to your questions/problems. Using your membership number when you write helps us be of help to you.

The Radio Communications Monitoring Association is a radio club for persons interested in listening to two-way communications. RCMA was founded in May 1975 and is a Full Member of the Association of North American Radio Clubs (ANARC).

The goals of RCMA are:

1) To provide a fraternity for those who seriously pursue the hobby of monitor radio listening.
2) To try to be knowledgeable about two-way radio systems and operations.
3) To promote an understanding of the legal and ethical uses of monitor receivers.
4) To share information with and help other monitor radio listeners.
5) To try to understand and improve receivers, antenna systems and related equipment.
6) To offer suggestions and formal recommendations to manufacturers of monitor receivers and to manufacturers of other products related to the hobby.
7) To offer suggestions for and encourage the organizing and conducting of RCMA meetings and tours for groups in any geographic area.
8) To encourage and to facilitate contact between members.
9) To publish a regular club newsletter devoted to the hobby.



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